



PRODUCT CATALOG | 2023

Rugged Mobile and Panel PC Solutions

Your Smart Computing Partner

► Table of Contents

00 Introduction

About AAEON	00-1
Milestones	00-3
Operation Strength	00-4
Core Competence	00-5
Quality Assurance	00-6
Mobile Computing Solutions	00-7
Rugged Tablet Computers	00-9
Accessories	00-11
Technologies	00-12
Applications	00-13
RISC Boards	00-15
AAEON RICO-3288/RICO-3399 RISC Ready to System (RTS) Solutions	00-19
Applications	00-20
AAEON Rugged Mobile and RISC OEM/ODM Services	00-23
OMNI Modular Builder	00-25

01 Rugged Tablet Computers

RTC-710RK	7" Rugged Tablet ARM-based Android™ with 1.6 GHz Quad Core Processor	01-1
RTC-710AP	7" Rugged Tablet Features Intel® N3350 / N4200 Processor with Windows® 10	01-3
RTC-1010	10.1" Rugged Tablet Features with Intel® N3350/N4200 Processor with Windows® 10	01-5
RTC-1010M	10.1" Semi-rugged Tablet Features With Intel® N3350 / N4200 Processor With Windows® 10	01-7
RTC-1020	10.1" Rugged Tablet Features Intel Tiger Lake UP3 Processor with Windows® 10	01-9
RTC-1200	11.6" Rugged Tablet Features Intel® Kaby Lake Up To 3.9 GHz Dual Core Processor with Windows® 10	01-11
RTC-1010RK	10.1" Rugged Tablet Features Rockchip RK3399 With Android 10.0	01-13
Accessories		
RDS-0710	Rugged Docking Station for RTC-710	01-15
RDS-411	Rugged Docking Station for RTC-1010/ RTC-1010M	01-17
RDS-241V	Rugged Docking Station (For RTC-1200)	01-19
RTC-1010-HS-000	Hand Strap for RTC-1010/ RTC-1010M	01-21
RTC-1010-SB-000	Shoulder Belt for RTC-1010/ RTC-1010M	01-21
RTC-1010-VMP-000	VESA Mount Plate for RTC-1010M	01-22
1255900363	DC-To-DC Power Adapter, Flying Wires for RTC-1010/ RTC-1010M	01-22
1255900364	DC-To-DC Power Adapter, Cigarette Plug for RTC-1010/ RTC-1010M	01-23
RTC-1200HSP01-000	Hand Strap for RTC-1200	01-23
RTC-1200BLT01-000	Shoulder Belt for RTC-1200	01-24
RTC-1200BLT02-000	Shoulder Belt for RTC-1200	01-24
RTC-1200BKT01-000	VESA Mount Bracket for RTC-1200	01-25
RBC-1200-000	4-bay Battery Charger for RTC-1010/ RTC-1010M, RTC-1200	01-26
RTC-1200BAT01-000	Battery Pack for RTC-1010/ RTC-1010M, RTC-1200	01-26

02 RISC Boards

RICO-3288	Pico-ITX Fanless Board with Rockchip ARM Cortex™-A17 Quad-core Processor	02-1
RICO-3288MINI	Pico-ITX Fanless Board with Rockchip ARM Cortex™-A17 Quad-core Processor	02-3
RICO-3399	Pico-ITX Fanless Board with Rockchip ARM Cortex-A72 Dual-core and Cortex-A53 Quad-core Processor	02-5
RICO-3568	Pico-ITX Fanless Board with Rockchip ARM Cortex™-A55 Quad-core Processor	02-7
RICO-MX8P	Pico-ITX Fanless Board with NXP i.MX 8M Plus	02-9

03 RISC Boxes

BOXER-RK88	Fanless Embedded Box PC with Rockchip RK3288	03-1
BOXER-RK99	Fanless Embedded Box PC with Rockchip RK3399	03-3

► Table of Contents

04 All in One Panel PC Solutions

ACP Series

ACP-1108	10.1" WXGA Android Based Panel PC with RockChip RK-3568	04-1
ACP-1106	10.1" WXGA Multi-Touch Panel PC With Intel® Pentium® N4200/ Celeron® N3350 Processor, 4 GB RAM	04-3
ACP-1104	10.1" WXGA Ultra-slim Fanless Multi Touch Panel PC w/ Intel® Celeron® J1900/ N2807 Processor, 2GB RAM	04-5
ACP-1076	7" SWXGA Multi-Touch Panel PC with Intel® Pentium® N4200/ Celeron® N3350 Processor, 4 GB RAM	04-7
ACP-1074	7" Ultra-Slim Fanless Multi-Touch Pnael PC with Intel® Celeron® J1900/N2807, 2GB RAM	04-9
ACP-1105	10.1" WXGA Open-frame Panel PC with PICO-APL3	04-13
ACP-1078	7" WSVGA Android Based Panel PC with ROCKCHIP RK-3568	04-14
ACP-1075	7" WSVGA Open-frame Panel PC with PICO-APL3	04-15

OMNI Series

OMNI-2155-CML	15.6" HMI Panel PC with 10th Generation Intel® Core™ / Celeron® Processor	04-11
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05 OMNI Series:Modular Builder

Panel Kit

OMNI-215D	15.6" OMNI Modular Touch/ LCD Panel Kit	05-1
OMNI-221D	21.5" OMNI Modular Touch/ LCD Panel Kit	05-3
OMNI-310D	10.4" OMNI Modular Touch/ LCD Panel Kit	05-5
OMNI-312D	12.1" OMNI Modular Touch/ LCD Panel Kit	05-7
OMNI-315D	15" OMNI Modular Touch/ LCD Panel Kit	05-9
OMNI-317D	17" OMNI Modular Touch/ LCD Panel Kit	05-11
OMNI-319D	19" OMNI Modular Touch/ LCD Panel Kit	05-13

BOX Kit

OMNI-BT-CPU BOX	OMNI Series Modules- CPU BOX Kit	05-15
OMNI-SKU-CPU BOX	OMNI Series Modules- CPU BOX Kit	05-17
OMNI-ADP-CPU BOX	OMNI Series Modules- CPU BOX Kit	05-19
OMNI-ADB-KIT	Display BOX Kit, DC 12~30V	05-21

I/O Modules

9741215501	Mini Card x 2 & SIM Card x 2 Module	05-23
9741215502	Dual LAN Module	05-23
9741215506	DIO Module	05-24
9741215508	Audio Module	05-24
9741215510	9741215510 - HMS Kit	05-25
9741215512	9741215512	05-25
9741215513	9741215513	05-26
9741215515	9741215515	05-26
9741215516	9741215516	05-27
9741215517	9741215517	05-27
9741215518	9741215518	05-28

06 OMNI Series: Modular Touch Panel Solutions

OMNI-2155-BT	15.6" Modular HMI Panel PC with Intel® Celeron® J1900/ N2807 Processor	06-1
OMNI-3105-BT	10.4" Modular HMI Panel PC with Intel® Celeron® J1900/ N2807 Processor	06-3
OMNI-3125-BT	12.1" Modular HMI Panel PC with Intel® Celeron® J1900/ N2807 Processor	06-5
OMNI-3155-BT	15" Modular HMI Panel PC with Intel® Celeron® J1900/ N2807 Processor	06-7
OMNI-3175-BT	17" Modular HMI Panel PC with Intel® Celeron® J1900/ N2807 Processor	06-9
OMNI-3195-BT	19" Modular HMI Panel PC with Intel® Celeron® J1900/ N2807 Processor	06-11
OMNI-2155-SKU	15.6" Modular HMI Panel PC with 6th Generation Intel® Core™ i5-6300U/ Celeron® 3955U Processor	06-13
OMNI-2215-SKU	21.5" Modular HMI Panel PC with 6th Generation Intel® Core™ i5-6300U/C-3955U Processor	06-15
OMNI-3125-SKU	12.1" Modular HMI Panel PC with 6th Generation Intel® Core™ i5-6300U/C-3955U Processor	06-17
OMNI-3155-SKU	15" Modular HMI Panel PC with 6th Generation Intel® Core™ i5-6300U/C-3955U Processor	06-19
OMNI-3175-SKU	17" Modular HMI Panel PC with 6th Generation Intel® Core™ i5-6300U/C-3955U Processor	06-21
OMNI-3195-SKU	19" Modular HMI Panel PC with 6th Generation Intel® Core™ i5-6300U/C-3955U Processor	06-23
OMNI-3155-ADP	15" Modular HMI Panel PC with Intel® Alder Lake-P i7/i5/i3/Celeron Processor	06-25
OMNI-2155-ADP	15.6" Modular HMI Panel PC with Intel® Alder Lake-P i7/i5/i3/Celeron Processor	06-27
OMNI-2215-ADP	21.5" Modular HMI Panel PC with Intel® Alder Lake-P i7/i5/i3/Celeron Processor	06-28
OMNI-3125-ADP	12.1" Modular HMI Panel PC with Intel® Alder Lake-P i7/i5/i3/Celeron Processor	06-29
OMNI-3175-ADP	17" Modular HMI Panel PC with Intel® Alder Lake-P i7/i5/i3/Celeron Processor	06-30
OMNI-3195-ADP	19" Modular HMI Panel PC with Intel® Alder Lake-P i7/i5/i3/Celeron Processor	06-31

07 OMNI Series: Modular Display Solutions

OMNI-215M	15.6" Touch Display Monitor, DC 12~30V	07-1
OMNI-221M	21.5" Touch Display Monitor, DC 12~30V	07-3
OMNI-310M	10.4" Touch Display Monitor, DC 12~30V	07-5
OMNI-312M	12.1" Touch Display Monitor, DC 12~30V	07-7
OMNI-315M	15" Touch Display Monitor, DC 12~30V	07-9
OMNI-317M	17" Touch Display Monitor, DC 12~30V	07-11
OMNI-319M	19" Touch Display Monitor, DC 12~30V	07-13

About AAEON

A Leader and Partner in Embedded Computing Platforms

We have a relentless drive for excellence and passion for unsurpassed service.



Established in 1992, AAEON is one of the leading designers and manufacturers of professional intelligent IoT solutions and advanced industrial computing platforms today. Committed to innovative engineering, AAEON provides integrated solutions including industrial motherboards and systems, industrial displays, rugged tablets, embedded controllers, network appliances and related accessories. We also work with premier OEM/ODMs and system integrators around the world. Offering x86-based platforms from Intel® Atom™ all the way to Intel® Xeon processors, and in desktop, 1U and 2U form factors, AAEON's team of experienced engineers has helped dozens of companies around the globe deploy reliable appliances with faster times to market and lower development costs based on state-of-the-art hardware platforms, unmatched service quality and long-term support.

As an Associate Member of the Intel® Internet of Things Solutions Alliance, AAEON offers customized end-to-end services from initial product conceptualization and board product development to mass manufacturing and after-sales service programs.

At AAEON, we take the environment seriously, and all of our products are compliant with RoHS regulations. We are dedicated to the sustainability of the Earth, and all of our products conform to applicable laws and regulations.

AAEON Core Values

Reliability:

Delivering dependable products in a timely manner

Integrity:

Valuing business integrity and ethics

Innovation:

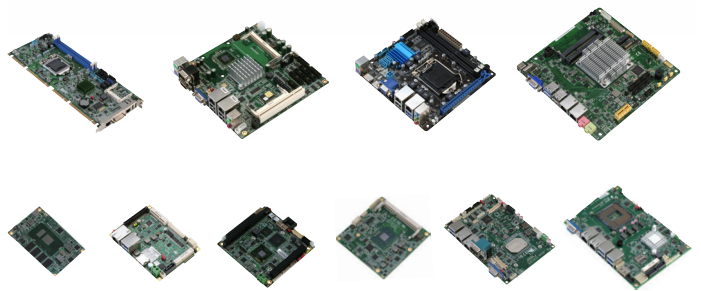
Turning cutting-edge concepts into reality



System Level Products

AAEON is committed to delivering high-quality intelligent system products, such as Rugged Panel PCs, Expandable Industrial Computers, Full HD Infotainment Displays, Rugged Tablets, Embedded PCs and related accessories, for use in all aspects of sectors including Digital Signage, Transportation, Industrial Automation, Healthcare, Hospitality, Harbor/Marine, Military/Government, Public Safety and Energy.

AAEON has the capability to customize services for a range of embedded computers and system products according to customer requirements and specifications. To help large customers with volume production, AAEON also provides an end-to-end Design Manufacturing Service (DMS) that begins with design and goes through to contract manufacturing. Quality assurance of our system products ensures excellent product performance and is the key to our success and growing global customer base.



Board Level Products

Embedded boards are the beating heart of every computer system. AAEON offers a diverse range of different embedded boards to consolidate your systems. Our products include Compact Boards, 3.5" Sub-Compact Boards, EPIC boards, PICO-ITX boards, COM Express Modules, PC/104 Modules, PC/104 Peripheral Modules, IoT Node/Gateway Boards, and full-sized & half-sized SBCs.

With the advent of the fourth industrial revolution, more commonly known as Industry 4.0, the optimization of automation processes and productivity is becoming more relevant than ever before. Embedded single boards provide an easily configurable and efficient solution to consolidating industrial platforms and infrastructure in fields such as smart cities, smart building management, smart transportation, energy-efficient grids, POS and digital signage, and the medical industry.

AAEON's boards are designed for superior environmental resilience. The WiTAS (Wide Temperature Assurance Services) line can be used within a temperature range of -40°C~85°C and is specifically built to combat harsh environments, operating at peak efficiency in both bitterly cold and blisteringly hot spaces. Our WiTAS products are also ideal for IoT uses and are designed for minimum maintenance and maximum ruggedness.

Milestones

- AAEON awarded 2021 System Integration Outbound Award
- AAEON awarded 2021 COMPUTEX d&i Awards
- AAEON awarded the 30th Taiwan Symbol of Excellence Award
- AAEON awarded the 26th National Quality Award

2021

- AAEON awarded two 2019 COMPUTEX d&i Awards
- AAEON awarded the 28th Taiwan Symbol of Excellence Award

2019

- AAEON awarded the 26th Taiwan Symbol of Excellence Award
- AAEON went public on the Taiwan Stock Exchange
- AAEON awarded a 2017 COMPUTEX d&i Award
- AAEON awarded the 2017 Smart City Innovative Application Award

2017

- AAEON awarded the 23rd Taiwan Symbol of Excellence Award
- AAEON awarded the Microsoft Partner of Year 2015 Award
- AAEON awarded the Outstanding Business Achievement Award

2015

- AAEON awarded the Computex Taipei 2013 Best Choice of the Year Award
- AAEON awarded the 21st Taiwan Symbol of Excellence Award
- AAEON awarded the Microsoft Silver Partner Award

2013

- AAEON awarded the Taiwan Excellence Achievement Award
- AAEON awarded the 19th Taiwan Symbol of Excellence Award
- AAEON awarded the Siemens Star Supplier 2011 Award
- AAEON awarded the Computex Taipei 2011 Best Choice of the Year Award
- AAEON joined ASUSTeK Computer Inc. (ASUS)

2011

- AAEON awarded the Taiwan Superior Brand Award
- AAEON awarded the 17th Taiwan Symbol of Excellence Award
- AAEON awarded the 17th MOEA's Joint Award

2009

- AAEON awarded the Intel® Marketing Development Funds Award of Excellence
- AAEON awarded the Intel® Greatest Co-Selling Growth Award of Excellence
- AAEON received ISO 13485 medical certification
- AAEON awarded the 15th Taiwan Symbol of Excellence Award
- AAEON awarded the Computex Taipei Best Choice of the Year Award

2007

- AAEON awarded the Computex Taipei Best Choice of the Year Award
- AAEON established a U.S. West Coast sales office in Brea, California
- AAEON moved its European branch to the Netherlands

2005

- AAEON became an Associate Member of the Intel® Embedded Alliance

2003

- AAEON Technology Inc. was established in Su Zhou, China
- AAEON became a publicly traded company on the Taiwan Stock Exchange
- AAEON set up a European office in Limburg, Germany

2001

- AAEON was listed as an OTC (Over The Counter) stock company
- The AAEON Foundation was established to promote humanitarian work and technological education

1999

- AAEON-USA, the premier off-shore branch office was established in New Jersey

1997

2022

- AAEON awarded 2022 Best Choice Golden Award

2020

- AAEON awarded the 29th Taiwan Symbol of Excellence Award

2018

- AAEON awarded a 2018 Vision Systems Design Award
- AAEON awarded three 2018 COMPUTEX d&i Awards
- AAEON awarded the 27th Taiwan Symbol of Excellence Award

2016

- AAEON awarded the 25th Taiwan Symbol of Excellence Award
- AAEON awarded a 2016 ICT Month Innovative Elite Top 100 Award
- AAEON awarded the 2016 Excellence in Corporate Social Responsibility Award
- AAEON awarded a 2016 outstanding Enterprises of the Year Golden Peak Award
- AAEON awarded the Transcend Most Valued Partner Award

2014

- AAEON awarded the 22nd Taiwan Symbol of Excellence Award
- AAEON awarded the Intel® IoT Solutions Alliance Member Performance Award

2012

- AAEON awarded the Computex Taipei 2012 Best Choice Award of the Year Golden Award
- AAEON awarded the 20th Taiwan Symbol of Excellence Award
- AAEON awarded the Microsoft® Windows® Embedded Partner of Year 2012
- AAEON awarded the Intel® Best Customer Award

2010

- AAEON awarded the 18th Taiwan Symbol of Excellence Award
- AAEON awarded the 2009 Growth in Intel® Atom™ Co-selling Award

2008

- AAEON awarded the Intel® Marketing Development Funds Award of Excellence
- AAEON awarded the 8th Industrial Sustainable Excellence Award
- AAEON awarded the 16th Taiwan Symbol of Excellence Award
- AAEON awarded the INFO TECH 100 TAIWAN Award

2006

- AAEON awarded the 14th Taiwan Symbol of Excellence Award

2004

- AAEON Technology (Su Zhou factory) received 3C and ISO-9001 certification
- AAEON set up a Singapore office

2002

- AAEON received TL9000-H certification
- AAEON became a member of the Intel® ACP Program

2000

- AAEON acquired Astech Technology Inc. to form the core of its panel PC Division

1998

- AAEON established sales offices in Europe and China

1992

- AAEON established its first office in Taipei, Taiwan

A member of the ASUS Group: A strong high-tech conglomerate

ASUS Technology and Financing

AAEON Design Flexibility and Domain Know-how



OEM/ODM Capability

The OEM/ODM service has been a key factor in AAEON's phenomenal growth over the past 10 years. AAEON offers design services for full custom requirements as well as modification services for its off-the-shelf products. Whatever you need, AAEON has the experience and expertise to help you create or modify products to perfectly fit your requirements.

Core Competence

Product Innovation

AAEON's integration expertise is integral to product designs that have the most desirable built-in features, saving customers valuable design and customization time. AAEON's OEM/ODM capabilities help us meet customers' exact specifications and requirements. In addition, AAEON has invested aggressively in R&D capabilities and will continue to do so to maintain a competitive advantage for new designs. In cooperation with premier technology vendors, AAEON participates in vendor early access programs to provide the latest technology to its customers.

Market Focus

AAEON has established a worldwide reputation for exceptional domain know-how. This expertise has enabled AAEON to secure a solid position in Machine and Factory Automation, as well as the Chemical Industry. Additionally, AAEON's cutting edge products meet the specific requirements of the Digital Signage, Transportation, Industrial Automation, Medical, Harbor/Marine, Military/Government, Public Safety and Energy sectors.

R&D Strength

AAEON takes great pride in its World Class R&D aptitudes. With more than 20% of AAEON's workforce employed in R&D and 10% of annual sales revenue invested in this field, AAEON is prepared to handle the most demanding designs based on the latest technologies. With our strong background in innovation, AAEON has been granted a raft of design patents around the world.

Design Capability

From our core competence of single board computer design, AAEON has expanded its capabilities to award-winning Panel PC System Design, BIOS Engineering with multi-vendor expertise, Mechanical Design, Peripheral Device Design, Design Verification and in-house EMI/EMC Debugging.

Manufacturing Capability

AAEON has manufacturing facilities located in Taipei, Taiwan and Suzhou, China. To become the leading supplier of Industrial Computers, AAEON has created manufacturing facilities with flexible layouts and expansion capabilities to easily address the demand for increased production capacity. Drawing upon the skills of its professional and experienced personnel to develop an efficient production system, AAEON has the ability to respond rapidly to customer requests for standard or customized IPC products.



Quality Assurance

AAEON's Quality Assurance Closed Loop Feedback System provides solid and consistent feedback through the design, manufacturing and service stages to ensure continuous progress and meet customer expectations. The three stages of the Quality Assurance System are Design Quality Assurance (DQA), Manufacturing Quality Assurance (MQA) and Service Quality Assurance (SQA).

DQA

Design Quality Assurance starts at the conceptual stage of a project and covers the product development stage to ensure the utmost quality throughout the process. AAEON's safety and environmental test labs ensure our products meet the requirements of CE/UL/FCC/CCC standards. All AAEON products go through an extensive and comprehensive test plan for compatibility, function, performance and usability. Therefore, AAEON customers can always expect to receive well-designed, high-quality products.

MQA

Manufacturing Quality Assurance is carried out in accordance with ISO 9001, ISO 13485, ISO 14001 certification standards. All AAEON products are built using production and quality testing equipment in a static-free environment. Additionally, these products go through rigorous tests on the production line and dynamic aging in the burn-in room. AAEON's Total Quality Control (TQC) program includes Incoming Quality Control (IQC), In-Process Quality Control (IPQC) and Final Quality Control (FQC). Periodic training, auditing and facility calibration are strictly implemented to ensure all quality standards are followed to meet customers' requirements. The Quality Control Team constantly communicates with R&D to improve product performance and compatibility.

SQA

Service Quality Assurance includes technical support and a repair service. With SQA, AAEON can serve its customers and also receive their feedback and work with R&D and Manufacturing to strengthen AAEON's response time in resolving customer concerns and improve service levels.

Repair Service

With an efficient eRMA system and RMA service policy, AAEON's RMA Team is able to ensure prompt, high-quality product repair and replacement services with a short turnaround time.

Quality Certification



AAEON has acquired many official certifications to maintain its quality system.

ISO 9001:	QMS Standards, 2015
ISO 13485:	QMS Standards, 2016
ISO 14001:	EMS Standards, 2015
ISO 27001:	ISMS, 2013
3C:	China Compulsory Certification
CE/FCC:	All AAEON products undergo and meet CE and FCC test standards which prove their design quality and integrity

Technical Support

The backbone of customer support is a team of professional Application Engineers who provide customers with real-time technical support. Their expertise is shared through internal knowledge management and links to the website for online nonstop service and solutions.

Mobile Computing Solutions



Introduction

Computing in the environment of Industry 4.0 means taking full advantage of innovative technologies and frameworks such as IoT, decentralizing of data processing, and utilizing wireless communication to overcome the limitations of physical infrastructure. As more things depend on technology, it is more important that we can carry that technology with us through the power of mobile computing.

AAEON Rugged Mobile Computing Solutions are designed to provide flexible and tough platforms built to handle working in environments which are harsh or abusive for consumer grade products. These rugged tablet PCs and semi-rugged tablet PCs provide reliable operation whether indoors or outside, in cold freezers or hot weather, onboard buses and controlling entryways. AAEON's Rugged Mobile Computing Solutions are built for work, in the field, in the office, or wherever is demanded.

Time Clock



Hospitality



Parking Management



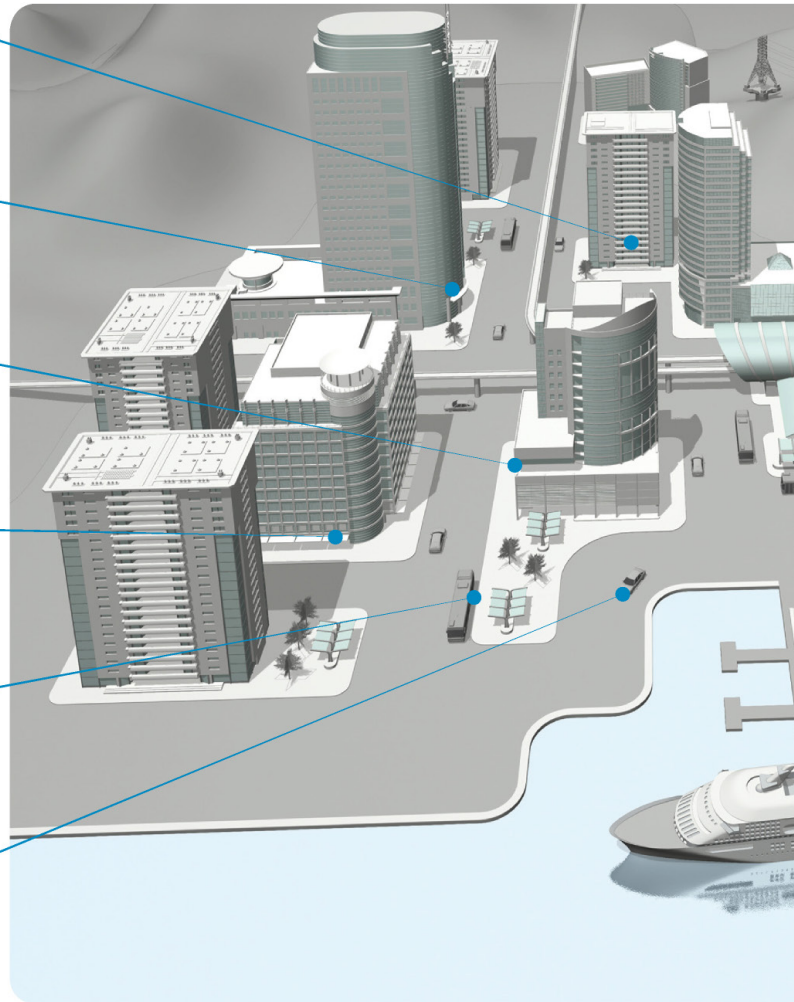
Access Control



e-Ticketing

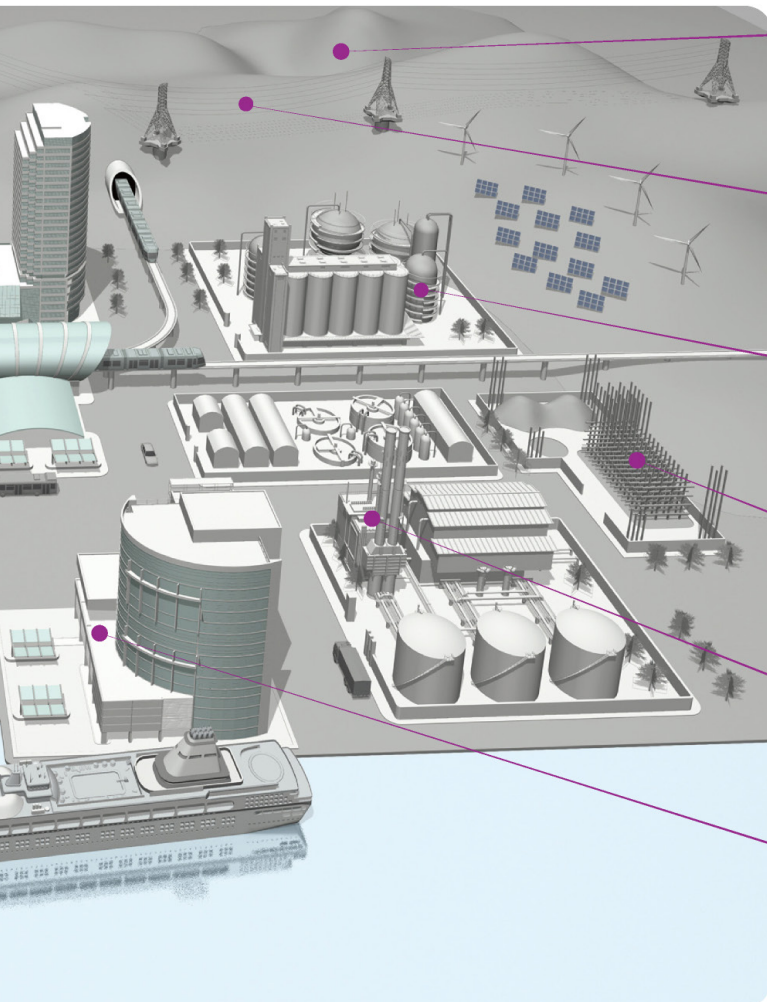


Fleet Management



Mobile Computing Solutions

00



Aerial Photography



Heavy Machinery



Factory Automation



Construction



Field Inspection



Logistic/Warehouse Management



Rugged Tablet Computers

Introduction

AAEON's new line of Rugged Tablet Computers (RTC) are MIL-STD-810G compliant and meet IP65 ratings. The RTC Series is built from the ground up to withstand water, dust, vibrations and shocks, as well as the extreme temperatures found in a variety of harsh conditions. The RTC product line will go wherever the job takes you. Encased in a tough magnesium alloy, the RTC Series offers secure and reliable mobile computing, whether it is vehicle mounted or hand carried into the field.

The rugged mobile computing market continues to grow as we find new ways to improve performance and productivity by enabling connectivity in the workforce. The RTC series offers up-to-the-minute information and in-field data acquisition, which makes mobile computing not just a valuable asset, but a critical requirement. Powered by low-power processors, such as Intel® and Rockchip, the RTC line delivers high performance with low power consumption. AAEON rugged tablet batteries can meet the demands of a full day's work in the field. Docking station options and vehicle chargers will keep the system up and running for multiple shift operations. These ergonomic and conveniently sized tablets are lightweight and will go with you anywhere to tackle the job on hand.

The PCAP touch screen and Advanced Optibond Technology (AOT™) allows easy and accurate data input. The programmable function keys are all standard features that make AAEON's RTC product line your best choice for mobile computing.

Featured Products



RTC-710RK

Android-based 7" Rugged Tablet Computer

- 7" WXGA (1280 x 800) 700-nit / 300-nit TFT LCD
- Rockchip RK3399K Processor
- Onboard LPDDR4 Memory, 2GB (Default) / 4GB
- eMMC 16GB (Default) / 32GB / 64GB
- Projected Capacitive Multi-Touch Screen
- WiFi 802.11b/g/n, Bluetooth 4.2, LTE (Optional)
- 8MP Front and 8MP Rear Camera
- UART Port + 10/100/1000 Base-T RJ45 via I/O Module (Optional)
- USB 3.2 Gen 1 Type-C x 1, USB 2.0 Type-A x 1
- 2D Barcode Scanner via I/O Module (Optional)
- NFC (HF RFID) Reader (Optional)
- GPS + GLONASS (Default), BeiDou (Optional)
- One Hot-swappable Battery + Internal Battery, Up to 44W Battery Capacity
- MIL-STD-810G, IP65 Compliant, Drop 122cm
- Programmable Function Key: F1, F2, F3, Volume Up/Down, With LED Illumination
- Android 8.1



RTC-710AP

Windows-based 7" Rugged Tablet Computer

- 7" WXGA (1280 x 800) 700-nit / 300-nit TFT LCD
- Intel® Celeron™ N3350 1.1GHz Dual Core Up to 2.4GHz (N4200 Optional)
- Onboard LPDDR4 Memory, 4GB (Default) / 8GB
- eMMC 64GB (Default) / 128GB
- Projected Capacitive Multi-Touch Screen
- WiFi 802.11b/g/n, Bluetooth 5.1, LTE (Optional)
- 2MP Front and 8MP Rear Camera
- RS-232 COM Port + 10/100/1000 Base-T RJ45 via I/O Module (Optional)
- USB 3.2 Gen 1 Type-C x 1, USB 2.0 Type-A x 1
- 2D Barcode Scanner via I/O Module (Optional)
- NFC (HF RFID) Reader (Optional)
- Up to 3 GNSS, GPS + Galileo (Default), GLONASS, BeiDou (Optional)
- One Hot-swappable Battery + Internal Battery, Up to 44W Battery Capacity
- MIL-STD-810G, IP65 Compliant, Drop 122cm
- Programmable Function Key: F1, F2, F3, Volume Up/Down, With LED Illumination
- Windows® 10 IoT

Rugged Tablet Computers

00



RTC-1010

10.1" Rugged Tablet Computer

- 10.1" WXGA (1280 x 800) 800-nit / 300-nit TFT LCD
- Intel® Celeron™ N3350 1.1GHz Dual Core Up to 2.4GHz (N4200 Optional)
- Onboard DDR3L Memory, 4GB (Default) / 8GB
- eMMC 64GB (Up to 256GB, Optional)
- WiFi 802.11b/g/n, Bluetooth 5.1, LTE (Optional)
- 2MP Front and 8MP Rear Camera
- RS-232/422/485 COM Port + 10/100/1000 Base-T RJ45
- USB 3.2 Gen 1 x 2 (USB Type-C x 1), USB 2.0 x 2
- 2D Barcode Scanner & Smart Card Reader / HF RFID (NFC) Reader (Optional)
- Up to 3 GNSS, GPS + Galileo (Default), GLONASS, BeiDou (Optional)
- One Hot-swappable Battery + Internal Battery, Up to 44W Battery Capacity
- MIL-STD-810G, IP65 Compliant, Drop 122cm
- Programmable Function Key: F0, F1, F2, F3, Volume Up/Down, With LED Illumination
- Windows® 10 IOT



RTC-1010M

10.1" Semi-rugged Tablet Computer

- 10.1" WXGA (1280 x 800) 300-nit TFT LCD (Default)
- Intel® Celeron™ N3350 1.1GHz Dual Core Up to 2.4GHz (N4200 Optional)
- Onboard DDR3L Memory, 4GB (Default) / 8GB
- eMMC 64GB (Up to 256GB, Optional)
- WiFi 802.11b/g/n, Bluetooth 5.1, LTE (Optional)
- 2MP Front and 8MP Rear Camera
- RS-232/422/485 COM Port + 10/100/1000 Base-T RJ45 (Optional)
- USB 3.2 Gen 1 x 2 (USB Type-C x 1), USB 2.0 x 2
- 2D Barcode Scanner & Smart Card Reader (Optional)
- HF RFID (NFC) / MSR Reader (Optional)
- Up to 3 GNSS, GPS + Galileo (Default), GLONASS, BeiDou (Optional)
- One Hot-swappable Battery + Internal Battery, Up to 44W Battery Capacity
- IP54 Compliant, Drop 76cm
- Programmable Function Key: F0, F1, F2, F3, Volume Up/Down, With LED Illumination
- Windows® 10 IOT



RTC-1200

11.6" Rugged Tablet Computer

- 11.6" FHD (1920 x 1080) 500-nit / 850-nit TFT LCD
- Intel® Core™ i 7100U / 7300U / Celeron® 3965U Up to 3.9 GHz
- One DDR4 SODIMM Socket, Up to 16GB
- One M.2 Slot for SSD, 64GB (Default) / 128GB / 256GB
- WiFi 802.11b/g/n, Bluetooth 5.1, LTE (Optional)
- 2MP Front and 5MP Rear Camera
- RS-232/422/485 COM Port + 10/100/1000 Base-T RJ45
- USB 3.2 Gen 1 x 2 (USB Type-C x 1), USB 2.0 x 2
- 2D Barcode Scanner / HF RFID (NFC) Reader (Optional)
- Hot-swappable Battery, 14.4V/ 2270mAh, 32.7W x 2
- MIL-STD-810G, IP65 Compliant, Drop 122cm
- Programmable Function Key: Windows, Volume Up/Down, P1, P2, P3, With LED Illumination
- Docking Connector with GNSS / WWAN Antenna Pass-through Connector
- Windows® 10 IOT



RTC-1020

10.1" Rugged Tablet Computer

- 10.1" FHD (1920 x 1200) 450-nit / 850-nit TFT LCD
- Intel® Core™ i Tiger Lake UP3 Processor
- Onboard LPDDR4X, 8GB (Default) / 16GB
- M.2 SSD, 64GB (Default) / 128GB / 256GB
- WiFi 802.11b/g/n, Bluetooth 5.1, LTE (Optional)
- 5MP Front and 8MP Rear Camera
- RS-232/422/485 COM Port + 10/100/1000 Base-T RJ45
- USB 3.2 Gen 1 x 2 (USB Type-C x 1), USB 2.0 x 2
- 2D Barcode Scanner (Optional)
- HF RFID (NFC) Reader (Optional)
- Up to 3 GNSS, GPS + Galileo (Default), GLONASS, BeiDou (Optional)
- Hot-swappable Battery, 14.4V/ 2270mAh, 32.7W x 2 (51.1W x 2, Optional)
- MIL-STD-810G, IP65 Compliant, Drop 122cm
- Programmable Function Key: F0, F1, F2, F3, Volume Up/Down, With LED Illumination
- Windows® 10 IOT (Default), Ubuntu

Accessories

RTC-1010 & RTC-1010M

RDS-411 (Rugged Docking Station)

- Apply on RTC-1010/ RTC-1010M
- Front-facing I/Os: USB 2.0 x 2 with Protection Cover
- Downward-facing I/Os for Easy Cable Management: USB 2.0 x 2, RS-232 x 1 (Two: Optional), RJ45 GbE x 1, DC-in Phoenix Connector x 1
- Wide Voltage Input: 9VDC ~ 36VDC
- Power Adaptor: AC Power Adaptor (Default)
- Anti-theft Lock with Key & VESA Mount



RTC-1010-HS-000

- Hand Strap for RTC-1010/ RTC-1010M



RTC-1010-SB-000

- Shoulder Belt for RTC-1010/ RTC-1010M



1255900363

- DC-To-DC Power Adapter, Flying Wires for RTC-1010/ RTC-1010M



1255900364

- DC-To-DC Power Adapter, Cigarette Plug for RTC-1010/ RTC-1010M



RTC-1010-VMP-000

- VESA Mount Plate for RTC-1010/ RTC-1010M



RBC-1200-000

- 4-bay Battery Charger for RTC-1010/ RTC-1010M, RTC-1200



RTC-1200BAT01-000

- Battery Pack for RTC-1010/ RTC-1010M, RTC-1200



* Li-on battery shipping is regulated by IATA DGR, special method and extra fee applies.

RTC-1200

RDS-241V (Rugged Docking Station)

- Anti-theft Lock with Key & VESA mount
- Downward-facing I/Os for Easy Cable Management
- Ext. GPS and WWAN with SMA Connector
- Front-facing I/O: USB x 2 in landscape Side
- Downward-facing I/Os: USB 3.2 Gen 1 Dual Port x 1 + RS-232 x 2, One with 5V in Pin9 & the Other with GPIO x 8, GbE x 1, M12 DC-in x 1
- Wide Voltage Range: 9V DC ~ 36V DC in M12-5P Female Connector
- Adaptor is Additionally: (Car Adaptor with Cigarette Plug or Std Adaptor for YC-14)



RTC-1200HSP01-000

- Hand Strap for RTC-1200



RTC-1200BLT01-000

- Shoulder Belt for RTC-1200



RTC-1200BLT02-000

- Shoulder Belt for RTC-1200



RTC-1200BKT01-000

- VESA Mount Bracket for RTC-1200



RBC-1200-000

- 4-bay Battery Charger for RTC-1010/ RTC-1010M, RTC-1200



RTC-1200BAT01-000

- Battery Pack for RTC-1010/ RTC-1010M, RTC-1200



* Li-on battery shipping is regulated by IATA DGR, special method and extra fee applies.

Customized Services

- Longevity Support
- ODM Services
- Small Minimum Order Quantity

Fully-Rugged Design



Water Resistant

- IEC 60529
- IPx5 standard



Drop Test

- MIL-STD-810G Method 516.6 Procedure IV



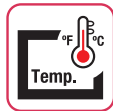
Dust Proof

- IEC 60529
- IP6x standard



Vibration Test

- MIL-STD-810G 514.6 Procedure I Cat. 24, Fig. 514.6E-1 & 514.6E-2
- ASTM 4169-99 Truck Assurance Level II, Schedule E



Temperature Test

- MIL-STD-810G Method 501.5 Procedure I & II, Method 502.5 Procedure I & II, Method 503.5 Procedure I, Method 507.5 Procedure II

Outdoor Application



Sunlight Readable LCD

- Readable under sunlight
- Higher brightness solution
- AOT optical bonding



Ambient Light Sensor

- Power savings in dark environments
- Detects light and brightness



AOT™ (Advanced Optibond Technology)

- The best reflection reduction among any commercially available technology
- Reinforces the LCD display, making it much more rugged



Long Battery Life

- Hot-swappable batteries design

Built-in Versatile Sensors



GPS

- Stand-alone GPS Navigation module



G Sensor

- Gravity sensor



E-Compass

- Electronic compass



Gyro Sensor

- Electronic gyroscopes

Wireless Communication



4G

- LTE



Bluetooth®

- 2.1/3.0/4.1/4.2/5.0



WiFi

- a/b/g/n/ac



NFC

- 13.56MHz Near Field Communication



RFID

- 13.56MHz Radio Frequency Identification



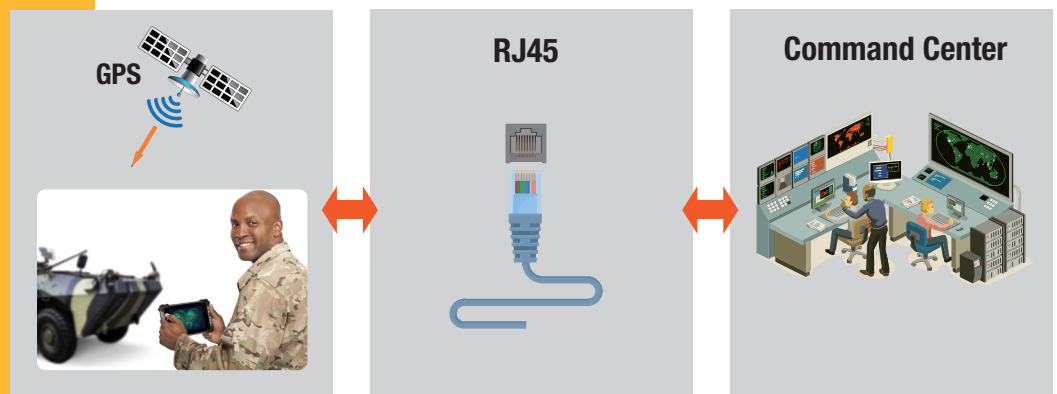
Requirements

- IP65-rated
- MIL-STD-810G-compliant
- Sunlight readable screens
- Wireless communication
- Long battery life
- Lightweight

Military

From combat readiness to logistical management, the need for rugged mobile computing to support military operations is clear. On and off the battlefield, soldiers need to not only communicate quickly and effectively, but those who support the front line need to ensure critical supplies get to where they're needed most.

AAEON offers MIL-STD-810G compliant and IP65 rated platforms, such as the RTC-1010 and RTC-710RK, which are designed to endure rough handling and harsh conditions that come with maintaining the supply lines for a modern force. Sunlight readable screens which can be adapted for use with gloves, allow for these rugged tablets to operate indoors and out, wherever military equipment and hardware needs to be moved. Effective and reliable communication is also provided through support for Wi-Fi, 4G/LTE and Bluetooth as well as various GPS protocols.





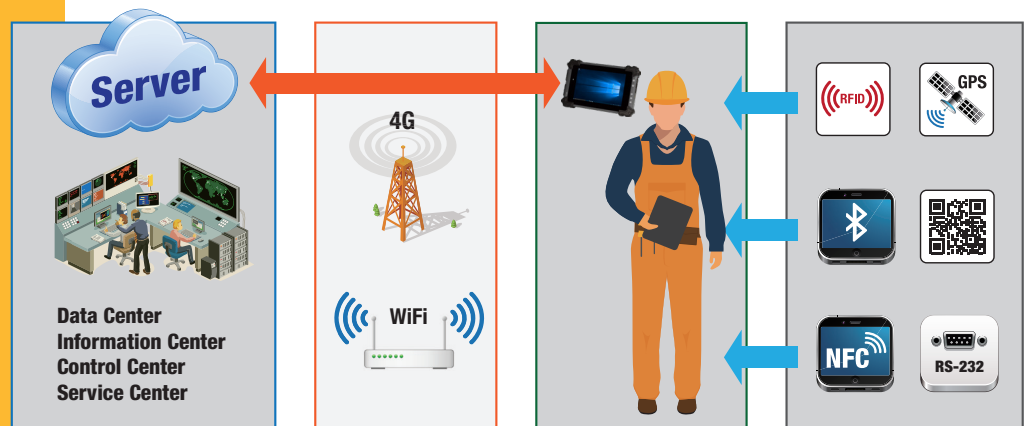
Requirements

- Sunlight readable screens
- Vibration & water resistant
- Wireless communication
- Long battery life

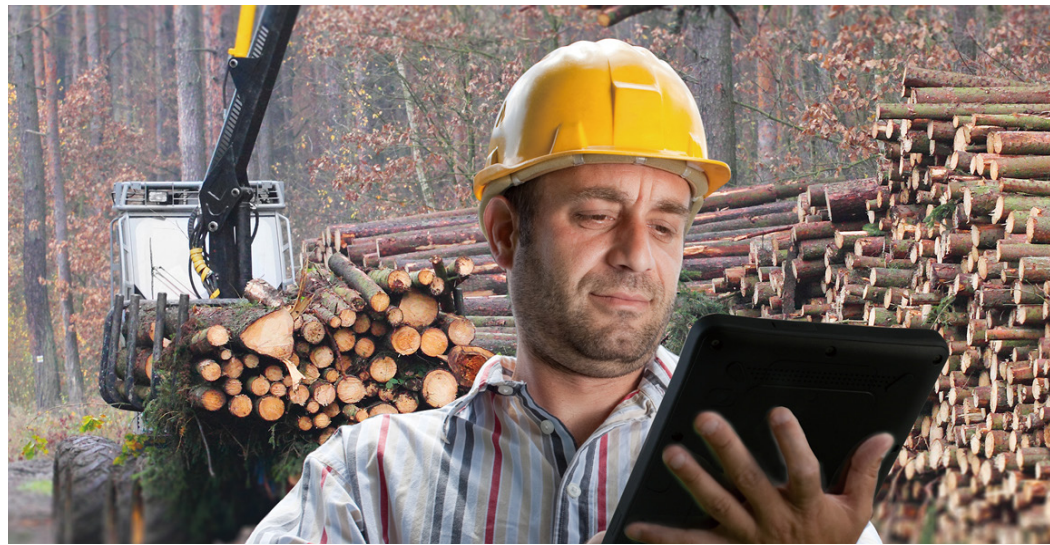
Field Service

One application which has benefited greatly thanks to the deployment of rugged mobile computing is field service and inspection. A job which is almost exclusively conducted outdoors or at unfinished sites, having a rugged tablet able to hold up to the rigors of field work is essential. The RTC-710AP and RTC-1010 rugged tablets are perfectly suited for the task, with wide operating temperature ranges and IP65 rated sealing to keep out dust, sand, water and other particulates commonly encountered during on-site work in the field.

Built in 8MP rear and 2MP front cameras provide added benefit for field inspectors to take on-site photos, and I/O connections allow the rugged tablets to connect to field equipment as needed. Wireless communications support with Wi-Fi and 4G/LTE allows for instant communication either through teleconferencing, submitting reports, or quickly uploading photos and documents to the cloud. On-board support for GPS navigation also means it's hard to get lost with AAEON rugged tablets.



Applications



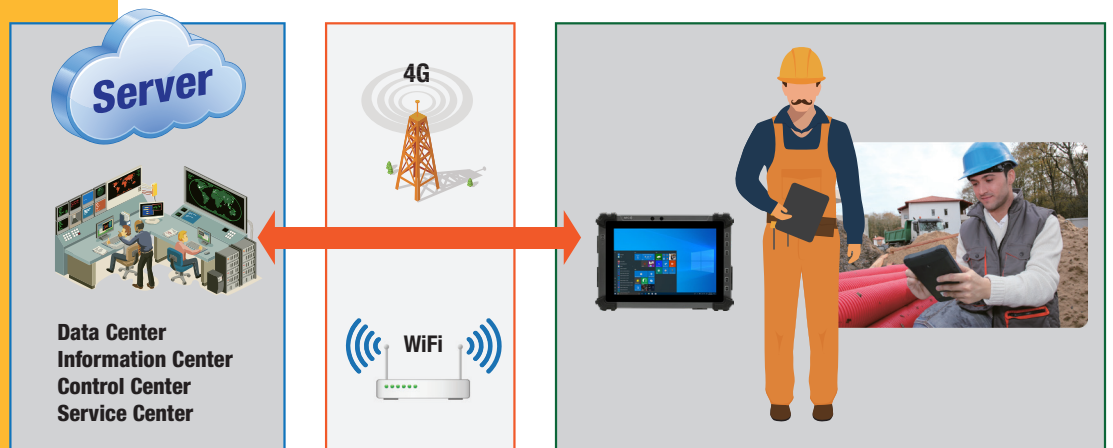
Requirements

- Sunlight readable screens
- Vibration & water resistant
- Wireless communication
- Long battery life
- Mechanical control

Heavy Machinery

Rugged mobile computing is helping to connect heavy machinery with the latest modern applications. Whether it's controlling equipment directly and providing human-machine interface, or acting as a monitor to track and report diagnostics and conditions, AAEON rugged tablets such as the RTC-1010 and RTC-710AP provide a vital tool in operating and maintaining heavy machinery.

Built for operating in any condition, whether indoors or out, AAEON rugged tablets feature touchscreens in a range of sizes from 7" to 11.6" with sunlight readable screens, configurable for use while wearing gloves as well as physical buttons for easier operation. Wireless support includes Wi-Fi, 4G/LTE, Bluetooth and GPS navigation to stay connected with networks, as well as a suite of I/O ports to allow the rugged tablets to connect directly to machinery when needed.





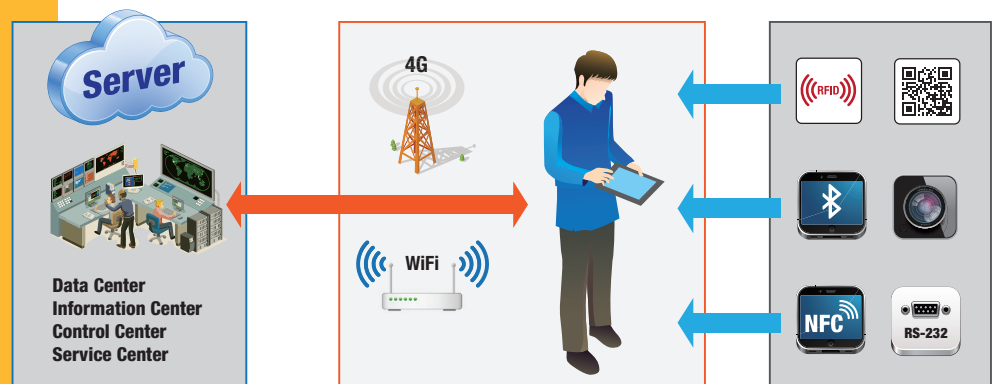
Requirements

- Sunlight readable screens
- Vibration & water resistant
- Wireless communication
- Long battery life
- Lightweight
- Mechanical control

Warehousing

No where has rugged mobile computing benefited users the most than in warehouses. From keeping track of stock, checking items in or out for shipment, or even managing orders on the go, rugged tablets provide warehouse workers and managers with a powerful tool that's always at their side. Whether it's the RTC-710RK or RTC-1010, AAEON rugged tablets are MIL-STD-810G compliant shock tested to provide a platform that can handle the bumps and drops that come with working in a warehouse.

AAEON rugged tablet PCs offer a range of accessories and support that are perfect for handling the toughest warehouse tasks. Hot swappable batteries ensure the tablets keep working all shift long, while optional add-ons such as barcode scanners helps fulfil the needs of logistical planning. Wireless communication with Wi-Fi and 4G/LTE support ensures the device is always connected to the warehouse database, and even provides a way to manage and control warehouse robots.

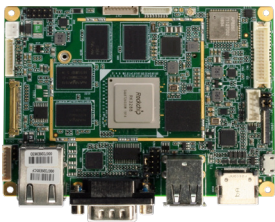




Introduction

AAEON RISC boards offer a compact embedded solution with low profile design, open-source operating system, and low power usage. AAEON RISC boards are powered by the Rockchip RK3288 and RK3399 chipsets, utilizing the latest Arm Cortex multi-core processor technology. Built to the PICO-ITX form factor, AAEON RISC boards are designed compact and with I/O features to make it easy to integrate into any project or application.

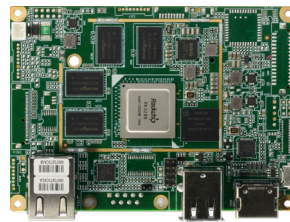
Featured Products



RICO-3288

Pico-ITX Fanless Board with Rockchip ARM Cortex™-A17 Quad-core Processor

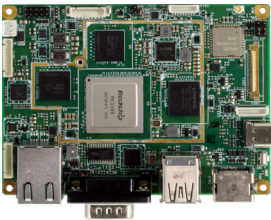
- Rockchip RK3288
- Onboard DDR3L 2GB/4GB (Optional)
- Onboard eMMC 16GB and Micro-SD Card Slot
- HDMI (1.4), eDP, LVDS, MIPI
- WiFi 802.11 a/b/g/n/ac, BT V4.2, GPS (Optional), NFC (Optional)
- GbE: RJ45 x 1
- USB 2.0: Micro-USB OTG x 1, Type A x 2, Pin Header x 1
- RS-232/422/485 x 1, RS-232 x 1
- 8-bit GPIO, I2C, mPCIe Slot x 1
- +12V DC Input
- OS Support: Android 9.0 / Debian
- Small Board Size: 100mm x 72mm (PICO-ITX)



RICO-3288MINI

Pico-ITX Fanless Board with Rockchip ARM Cortex™-A17 Quad-core Processor

- Rockchip RK3288
- Onboard DDR3L 2GB
- Onboard eMMC 16GB
- HDMI (1.4): Up to 4K x 2K @ 60Hz
- GbE: RJ45 x 1
- USB 2.0: Micro-USB OTG x 1, Type A x 2
- 8-bit GPIO
- +12V DC Input
- OS Support: Android 9.0 / Debian
- Small Board Size: 100mm x 72mm (PICO-ITX)

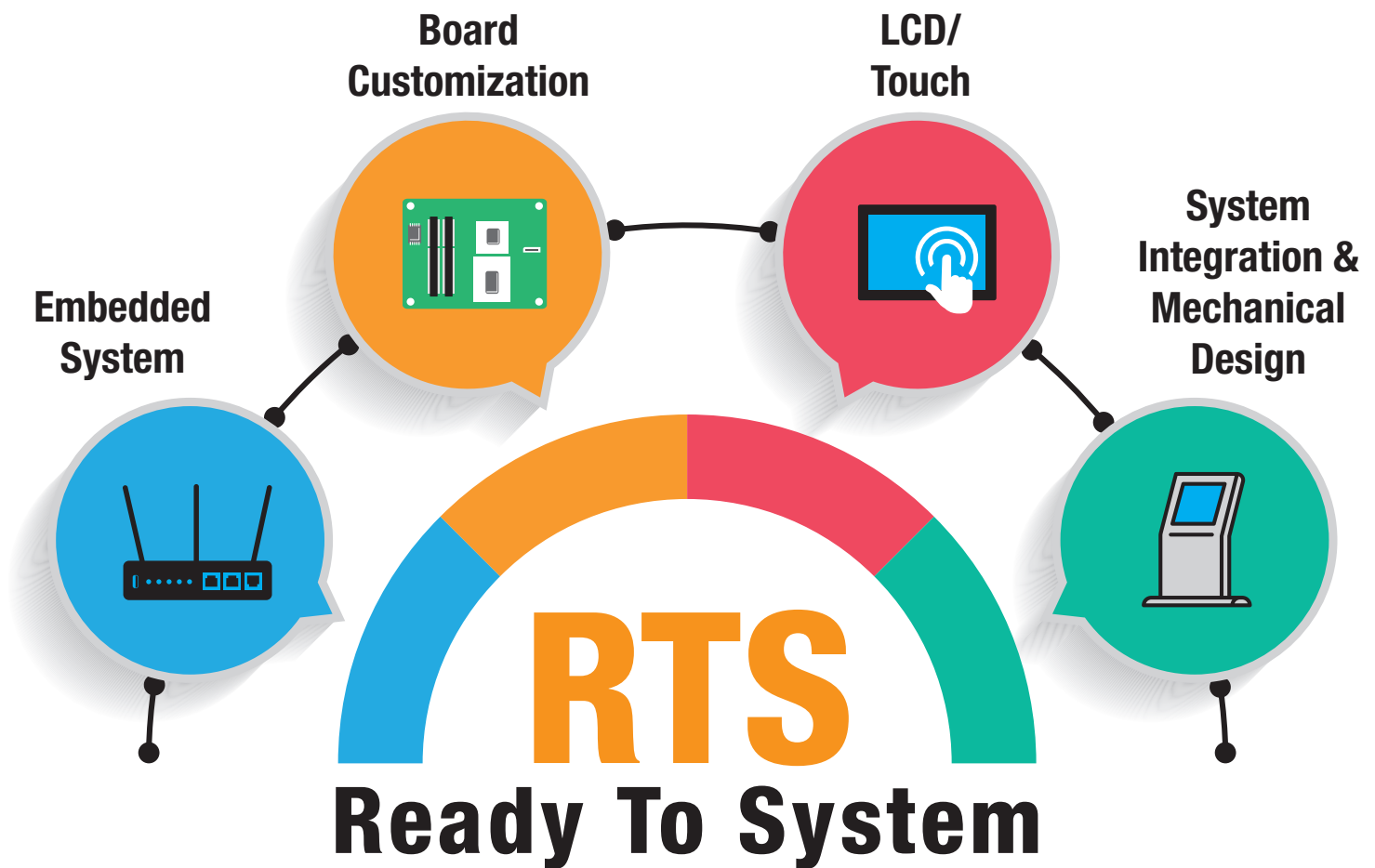


RICO-3399

Pico-ITX Fanless Board with Rockchip ARM Cortex-A72 Dual-core and Cortex-A53 Quad-core Processor

- Rockchip RK3399
- Onboard LPDDR3 2GB/4GB (Optional)
- Onboard eMMC 16GB and Micro-SD Card Slot
- HDMI (2.0), eDP
- WiFi 802.11 a/b/g/n/ac, BT V4.2, GPS (Optional), NFC (Optional)
- GbE: RJ45 x 1
- USB 3.2 Gen 1: OTG x 1, Type A x 1
- USB 2.0: Type A x 1, Pin Header x 1
- RS-232/422/485 x 1, RS-232 x 1
- 8-bit GPIO, I2C, mPCIe Slot x 1
- +12V DC Input
- OS Support: Android 8.1 / Debian
- Small Board Size: 100mm x 72mm (PICO-ITX)

AAEON RICO-3288/RICO-3399 RISC Ready to System (RTS) Solutions



Introduction

AAEON's RISC Ready to System (RTS) Solutions combine our knowledge and expertise in RISC architecture, OEM/ODM services and system design to offer developers and systems integrators a more complete package solution to help get their applications off the ground quickly. RTS solutions are based around the flexible RICO-3288 and RICO-3399 PICO-ITX RISC boards powered by Rockchip processors.

Customers can choose to add on components such as LCD with touch screens, 4G/LTE support, cables and connectors. RTS solutions also offer full end-to-end service with board layout customization and mechanical design to mount the board into an enclosure or designing the entire system from the ground up. AAEON RTS Solutions come with industry leading support, working closely to provide services such as customizing Android OS image, testing and validating customer software, and more to help accelerate development and reduce time to market.



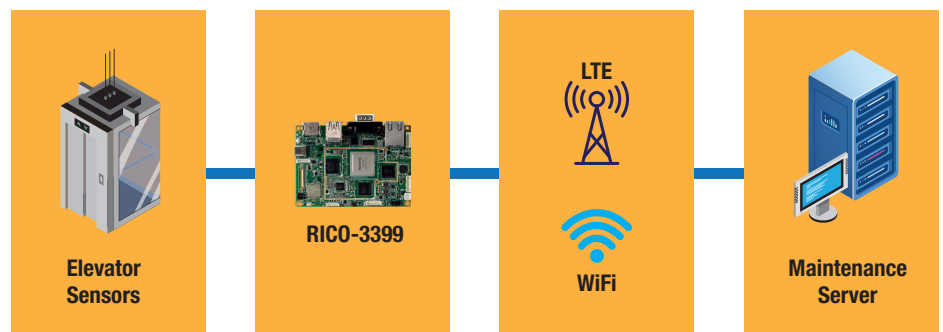
Requirements

- Low Power
- Energy Efficient
- Reliable Operation
- Wide-Temperature
- Custom Android Image

Elevator Maintenance Monitor RICO-3399

An elevator company recently decided to modernize the fleet of elevators they help maintain for their customers. One way they did this was to make maintenance more efficient and to address problems as they arise, before they can cause trouble. The company selected the RICO-3399 for the job, with its compact size, stable and reliable operation, and wide temperature design.

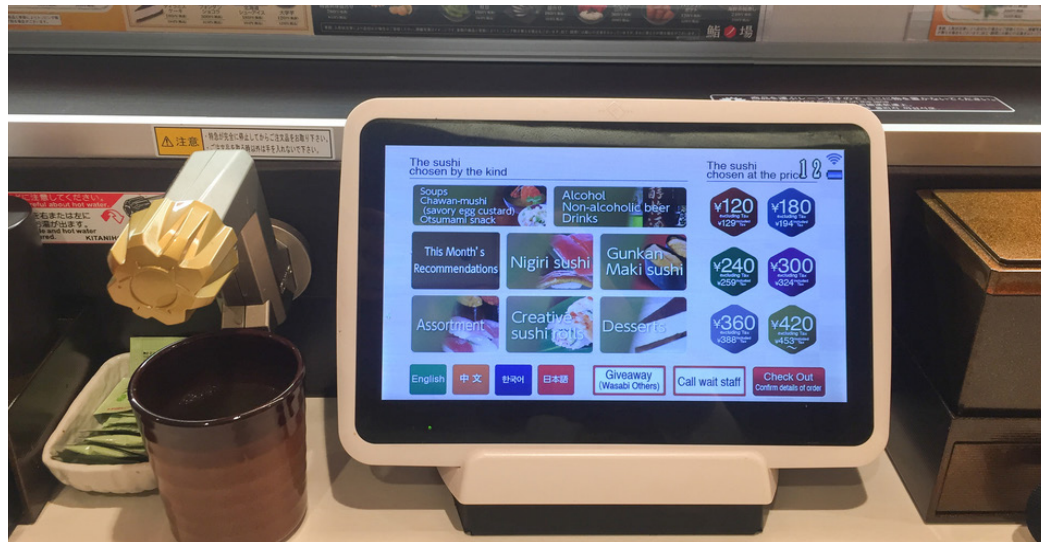
AAEON helped build a custom Android image which eliminated many unnecessary background applications, further saving processing power and energy, especially when the elevator is not in use. Utilizing wireless communication, the RICO-3399 connects to the company's maintenance servers allowing them to keep a close eye on the elevator, and help prevent breakdowns before they happen.





Requirements

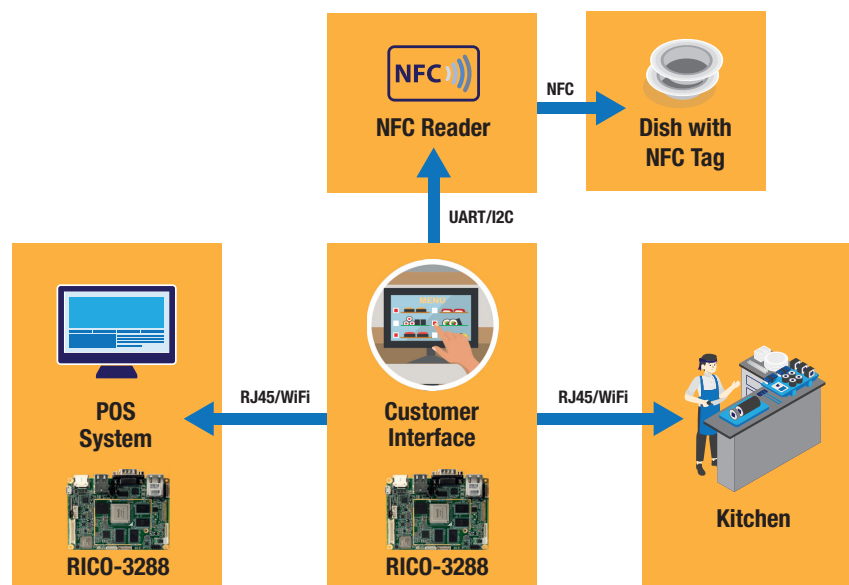
- Compact Board
- Reliable Operation
- Custom Android Image
- Mechanical Design Support
- LCD with Touch Screen



Computerized Restaurant Ordering System RICO-3288

While most restaurants try to predict customer traffic and adjust their staffing to match, customer rushes can be unpredictable. Add in customer's ability to order individual dishes a la carte, such as in a sushi restaurant, and it becomes almost impossible to keep up with each individual diner. Many restaurants are turning to at-table ordering systems, with interactive touch-screen menu displays.

The RICO-3288 and AAEON RISC RTS solutions are at the forefront of designing and deploying these systems, helping provide LCD with touch screens, custom Android images, and even helping with mechanical design for ordering systems which can retract or hide out of the way when customers aren't using the systems.





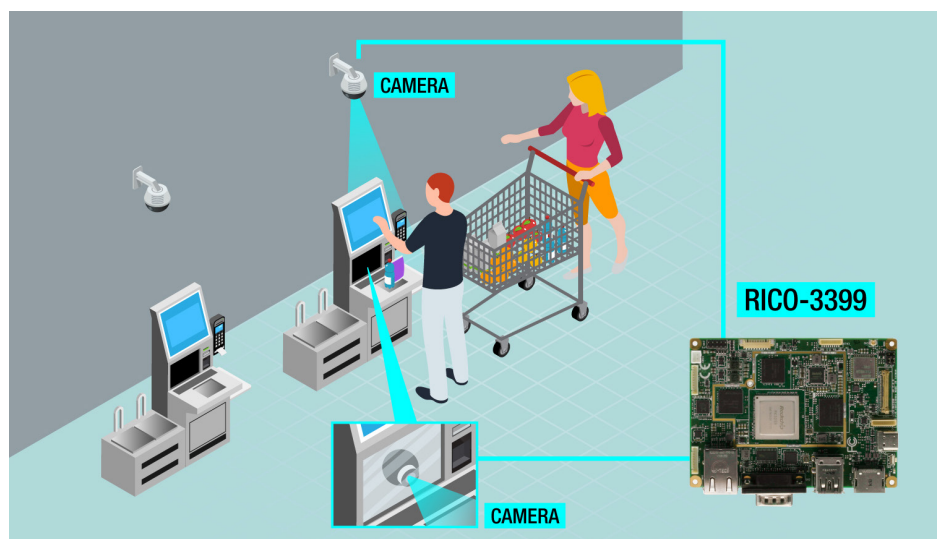
Requirements

- AI Edge Capable
- Reliable Operation
- Low Maintenance
- Wi-Fi Support
- Custom Android Image

Self-Checkout Loss Prevention RICO-3399

It's well known in the retail industry that self-checkout lanes provide greater customer convenience and experience. However, they have also become one of the highest sources of loss by shoplifting in large retailers. Deploying an object identification and behavioral analysis AI inference, retailers can better track and be alerted to potential shoplifters.

The RICO-3399 offers the processing needed to power these AI Edge Computing inferences, processing multiple camera inputs to observe customers as they check out. This also helps increase accuracy with self-checkout aisles, reducing false alarms which weight-based systems are often prone to. Fanless design and reliable operation also help reduce maintenance costs, and by connecting with the in-store networks, the RICO-3399 can warn loss prevention personnel of potential issues.

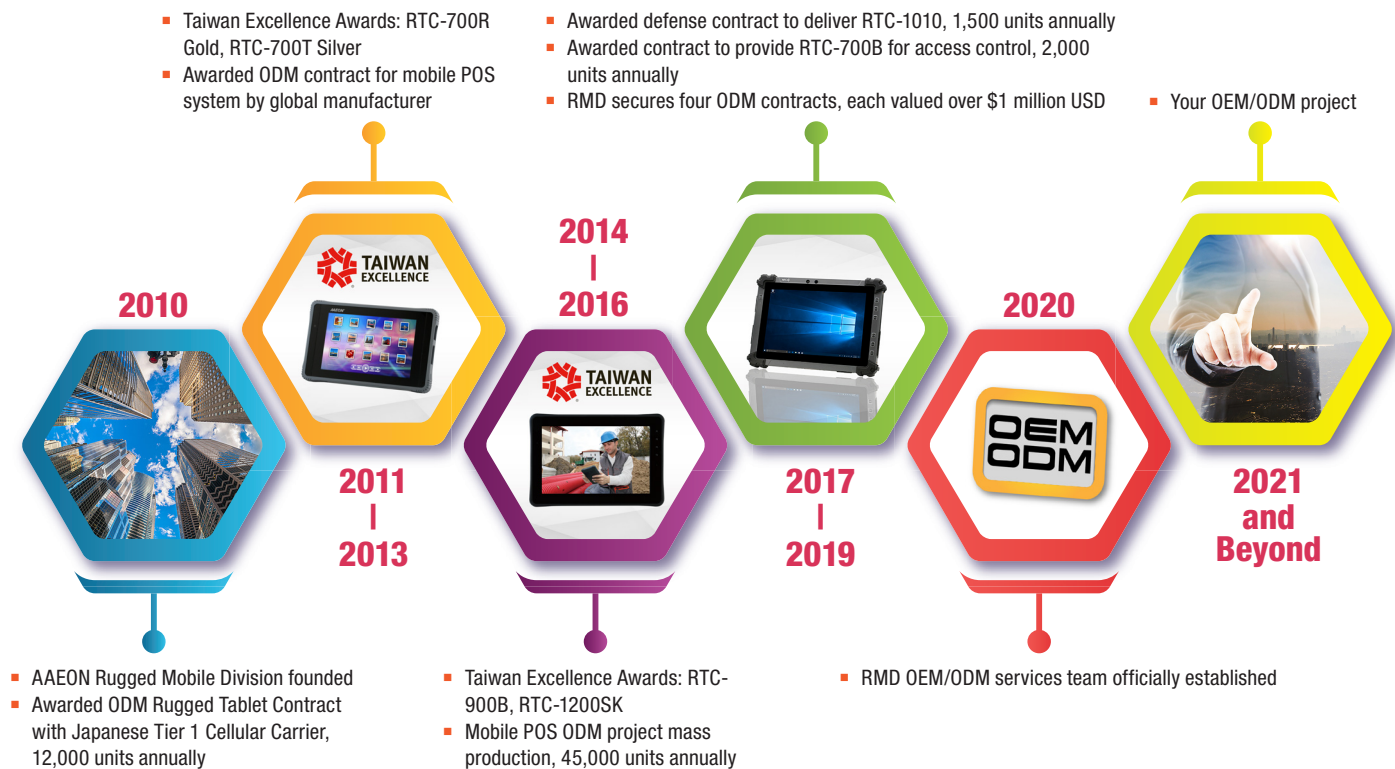


AAEON Rugged Mobile and RISC OEM/ODM Services

Introduction

AAEON Rugged Mobile Division (RMD) OEM/ODM team is dedicated to providing services for customers needing durable mobile solutions, whether board level RISC-based solutions or complete rugged systems. AAEON RMD offers over a decade of industry leading expertise and experience to bring end-to-end service and support, from firmware to smart battery management, integrated wireless communication to bright impact resistant LCD screens. RMD OEM/ODM can help accelerate development and reduce time to market whether its large volume production or small projects, with experience across a wide range of applications including ePOS, eBook reader, media boxes, fitness & exercise equipment and even client branded rugged tablets. We're also engaging new OEM/ODM markets including edge computing, AIOT gateways, and smart factory automation as part of the growing Industry 4.0 ecosystem.

Milestones



Core Competencies



Embedded Firmware Service

- Power Sequence, Sensors Access



Limitless Mobility

- RFID, 5G, WI-FI 6, Bluetooth, GPS



Smart Battery Management

- Gauge Controller, Dual Swappable Batteries, Extend Portable Battery Life



High Brightness LCD

- Low Humidity, High Transmittance, and UV-block Coating

AAEON Rugged Mobile and RISC OEM/ODM Services

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System



With AAEON RMD OEM/ODM services you get access to our knowledge and experience in designing rugged mobile systems, from mechanical design to selecting the right materials for the job, and ensuring a smooth manufacturing process to reduce and eliminate factory defects. RMD OEM/ODM covers all the bases, from design and process failure mode and effects analysis (DFMEA/PFMEA) to mold flow analysis, mechanical, tolerance and thermal analysis. RMD OEM/ODM offers total end-to-end service in designing, testing and deploying your custom system.

Software



AAEON RMD OEM/ODM team also includes dedicated software support. RMD OEM/ODM team can help power your board with services designed to ensure proper functionality with license operating systems like Microsoft® Windows™ or open-source OS like Android and Debian; building, testing and validating custom operating system images; or helping to validate and debug proprietary software, ensuring it runs smoothly. AAEON RMD OEM/ODM team provides rapid service, responding to software questions or issues quickly to prevent delays in deploying your application.

Board



The foundation of any project, RMD's OEM/ODM team can help design and build the perfect layout for your project. Utilizing both Intel x86 and ARM based processors including the Rockchip RK3000 series and NXP i.MX8, OEM/ODM customers can choose the best system for their applications. Functionality and flexibility are easy to achieve, whether you need broad I/O and expansion support, built-in Wi-Fi or cellular support (4G/LTE/5G), or need an ultrathin, compact board. How thin can we make it? Yes.

Service

AAEON RMD OEM/ODM team is dedicated to working closely with every customer, providing individualized service throughout the process. Our team responds to inquiries and issues quickly, and provides testing, validation and certification to help accelerate development and reduce time-to-market. RMD OEM/ODM service doesn't stop at the loading dock, either. AAEON is dedicated to providing service and support after our products leave the factory, providing quick response and turn around including RMAs processed within 24 hours.

OMNI Modular Builder

Introduction

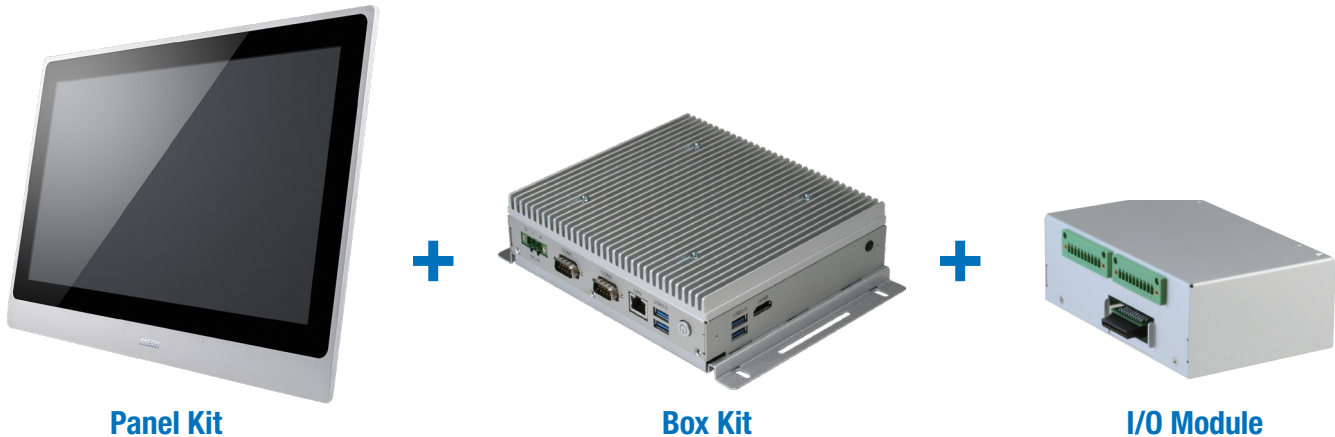
The OMNI Panel PC is built with an innovative modular design to make it quick and easy for suppliers and customers to find and build the configuration they need for the job. From panel and box to I/O modules, the OMNI Panel PC offers a range of configurations and combinations you can build.

The OMNI modular panel PC features three main components; the Panel Kit, CPU BOX Kit, and I/O Modules. Each Panel Kit comes with a standard slot attachment, which allows any OMNI CPU BOX kit to be mounted quickly and easily. It only takes three wires and three screws to attach the CPU BOX kit to the Panel Kit. The optional I/O Modules simply plug into the side of the CPU BOX Kit and can be secured with two screws. Even better, the OMNI system uses a plug-and-play style firmware, allowing you to quickly change components without needing to flash or update the BIOS settings.

With this modular design system, customers can easily build or upgrade their own Panel PC, and suppliers can enjoy more flexibility and cost savings while maintaining stock. All a customer needs to do is pick their preferred screen size, the box kit with the processor and specifications desired, and the optional I/O module they need.

Build Your Own or Select a Pre-built System

Select Module Kit to Build Your Configuration



Pre-built System



Build Your Own in Three Steps!

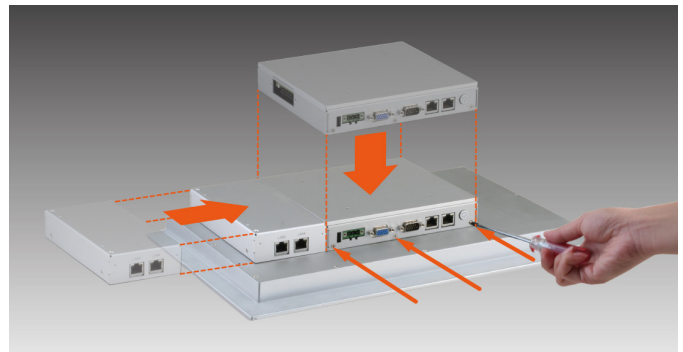
Step 1: Select a Panel Kit, with sizes from 10.4" up to 21.5"



Step 2: Select a CPU Box Kit or a Display Box Kit



Step 3: Select an I/O Module (optional)



Or Select a pre-built OMNI System

OMNI-SKU: These systems feature the 6th Generation Intel Core i7/i5/i3 and Celeron 3995 processors (formerly Skylake), combined with up to 16GB of memory.

OMNI-BT: These systems are powered by the Celeron J1900 and Celeron N2807 processors (formerly Bay Trail), with up to 8GB of memory available (J1900 CPU).

OMNI-M: These systems are fitted with the Display Box Kit, allowing you to connect the OMNI panel to any PC system via VGA or HDMI.



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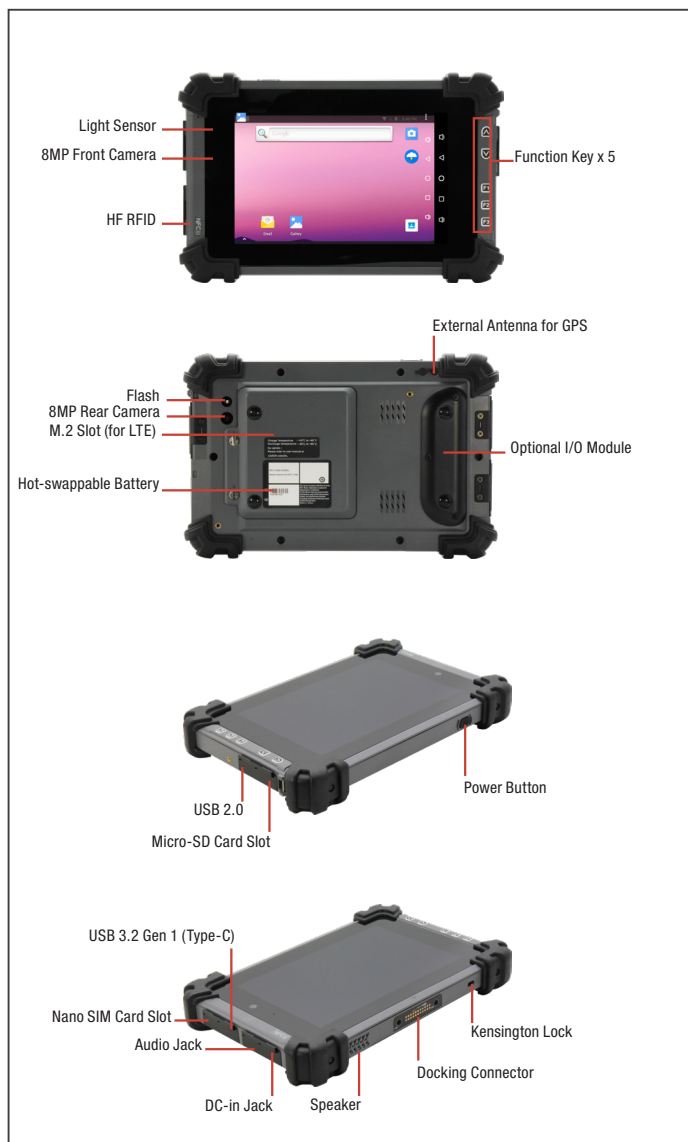
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Rugged Tablet Computers



RTC-710RK

7" Rugged Tablet ARM-based Android™ with 1.6 GHz Quad Core Processor



Specifications

System Architecture	
Processor	Rockchip RK3399K Processor (Quad-Core A53 1.6GHz & Dual-Core A72 2.0GHz)
Operating System	Android 8.1
Memory	Onboard LPDDR4 2GB (Default) / 4GB
Storage	eMMC 16GB (Default) / 32GB / 64GB
Display	7" WXGA (1280x800) 300-nit / 700-nit TFT LCD With Projected Capacitive Multi-Touch Screen
I/O Port	SIM card slot x 1 USB 3.2 Gen 1 Type-C x 1 Audio jack x 1 (3.5mm) DC-in jack x 1 Micro-SD card slot x 1 USB 2.0 Type-A x 1 UART Port x 1 (Via I/O Module) 10/100/1000 Base-T RJ45 x 1 (Via I/O Module)
Communication	Wi-Fi 802.11 b/g/n, Bluetooth v4.2 (EDR + BLE)
Navigation	GPS + GLONASS (Default), BeiDou (Optional), External Antenna (Optional)
WWAN(optional)	LTE via M.2 slot (Optional) Hot-swappable Battery can not be used when LTE module is installed.
Camera	8MP front camera 8MP rear camera with flash
Sensor	G-sensor, E-compass, Gyro-sensor, Light-sensor
Expansion Slot	M.2 slot x 1 Docking connector: USB 3.2 Gen 1 x 1

Features

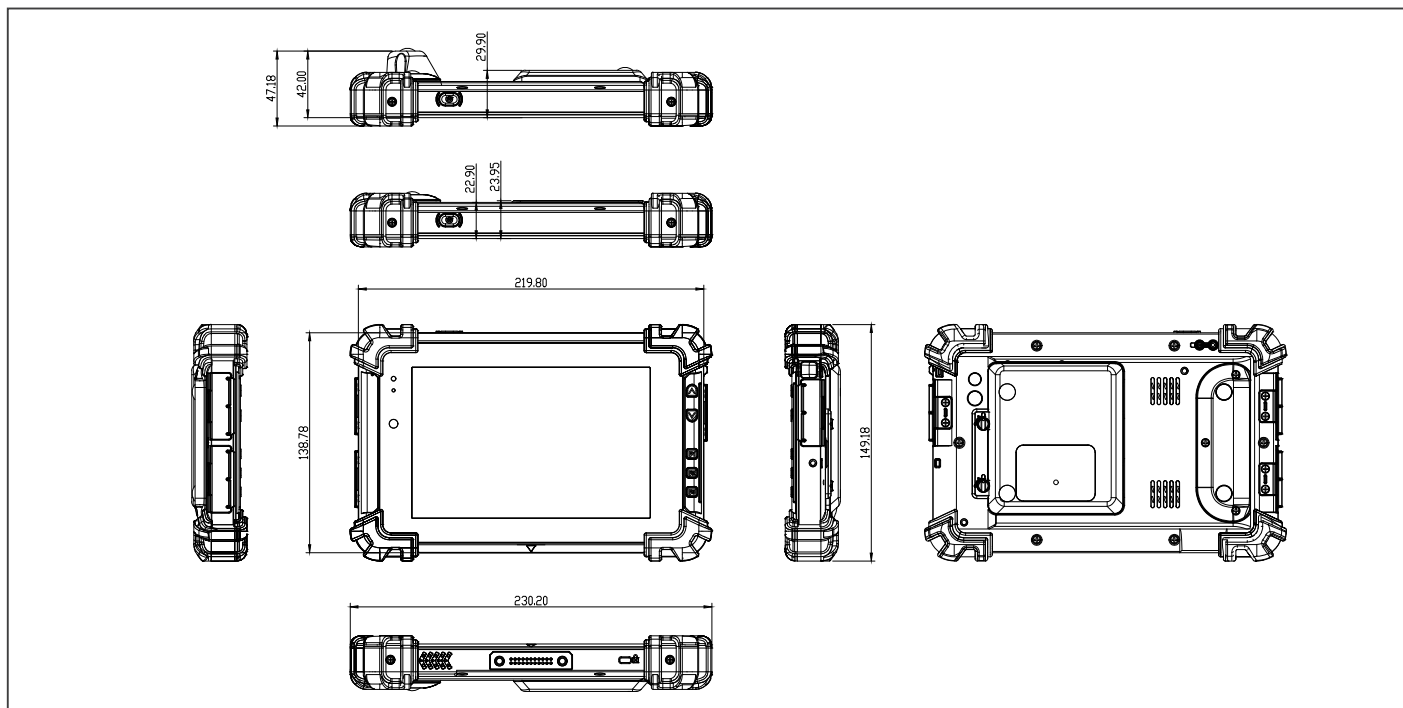
- 7" WXGA (1280 x 800) 700-nit / 300-nit TFT LCD
- Rockchip RK3399K Processor
- Onboard LPDDR4 Memory, 2GB (Default) / 4GB
- eMMC 16GB (Default) / 32GB / 64GB
- Projected Capacitive Multi-Touch Screen
- WiFi 802.11b/g/n, Bluetooth 4.2, LTE (Optional)
- 8MP Front and 8MP Rear Camera
- UART Port + 10/100/1000 Base-T RJ45 via I/O Module (Optional)
- USB 3.2 Gen 1 Type-C x 1, USB 2.0 Type-A x 1
- 2D Barcode Scanner via I/O Module (Optional)
- NFC (HF RFID) Reader (Optional)
- GPS + GLONASS (Default), BeiDou (Optional)
- One Hot-swappable Battery + Internal Battery, Up to 44W Battery Capacity
- MIL-STD-810G, IP65 Compliant, Drop 122cm
- Programmable Function Key: F1, F2, F3, Volume Up/Down, With LED Illumination
- Android 8.1



Barcode Scanner (Optional)	2D Barcode scanner, OPTICON MDI-4100-USB via I/O module (Optional)
HF RFID (Optional)	ISO 15693 (R/W), ISO 18092 (R/W), ISO 14443-A (R/W), ISO 14443-B (R/W), Depend on card type
Audio	Speaker x 1
Physical Key	F1 (Audio On/Off), F2 (Screenprint), F3 (Barcode Scanner Trigger), Volume Up, Volume Down
Mechanical	
Color	Dark Gray
Dimension (W x H x D)	8.65" x 5.46" x 0.94" (219.8 x 138.8 x 23.9 mm)
Gross Weight	1.54 lb (0.7 Kg) based on configurations
Environmental	
Operating Temperature	-4°F ~ 140°F (-20°C ~ 60°C) for high-brightness version
Storage Temperature	-22°F ~ 158°F (-30°C ~ 70°C)
Humidity	MIL-STD-810G Method 507.5
Environmental Sealing	IP65
Vibration	MIL-STD-810G Method 514.6
Drop	MIL-STD-810G Method 516.6 Procedure IV Height of Drop: 122 cm (48 inch; 4 ft)
Shock	MIL-STD-810G
ESD	Air charge: +/- 8KV, Contact charge: +/- 4KV
Certifications and Standards	UL62368-1, CE, FCC, IC
Power Supply	
AC / DC Adapter	AC 100 ~ 240 V, 50 ~ 60 Hz, Output: 12V/ 3.34A/ 40W
Battery Life	Li-ion Battery 8-hour battery life based on test configurations
Master Battery	7.2V, 4540mAh, 32.7W
Slave Battery	Hot-swappable battery: 7.4V, 1530mAh, 11.3W (Optional)
Display	
LCD	7" TFT-LCD / 16:10, with LED backlight
Resolution	1280 x 800
Maximum Color	—
Dot Size	0.03925(H) X 0.11775(V) mm
Brightness	700 / 300 nits
Viewing Angle	Horizontal: 178° (Typ.), Vertical: 178° (Typ.)
Touch Screen	
Touch Type	7" Projected Capacitive Multi-Touch Screen (700 nits with 10 points / 300 nits with 5 points)
Light Transmission	Min. 85%

Dimension

Unit: mm



Packing List

- **RTC-710RK**
 - **1255X00008**
AC-To-DC Power Adaptor, 12V, 40W
- *Power cord must be purchased separately.

Optional Accessories

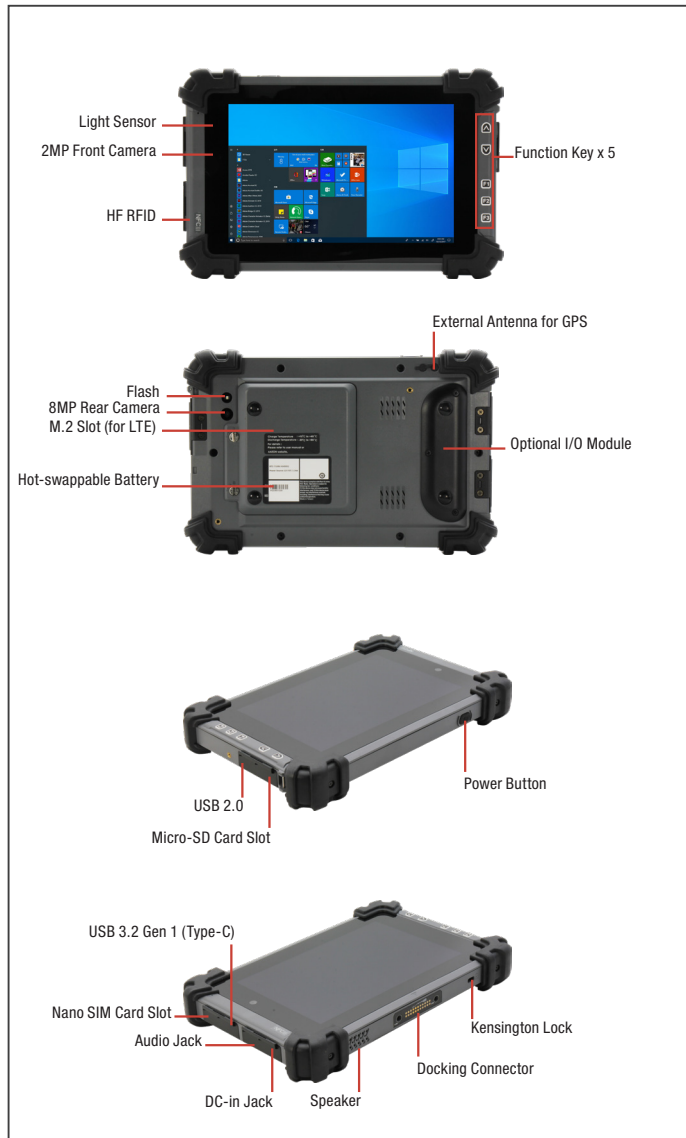
- **RDS-0710-000**
Docking Station
- **RDS-0710-001**
Docking Station, W/ Stand
- **RTC-710-HS-000**
Hand Strap
- **RTC-710-BAG-000**
Carry Bag
- **RDS-0040-0000**
4-Bay Battery Charger
- **9741600R04**
Battery Pack, 7.4V, 1530mAh, 2pcs/Box
- **RTC-710-VMP-000**
VESA Mount Plate
- **1259X00003**
Car Adapter, Cigarette Plug
- **1702031802**
Power Cord for USA
- **1702031803**
Power Cord for Europe
- **170203180J**
Power Cord for UK
- **170203180E**
Power Cord for Japan

Ordering Information

Part Number	CPU	OS	LCD Display	Touch Screen	System Memory	Storage	Expansion I/O	Sensor	WiFi/Bluetooth	Navigation	LTE Bands (MHz)	Camera	Docking	2D Barcode Scanner	HF RFID	Battery	Power
RTC-710RK-RH0001	RK3399K	Android 8.1	7" 700 nits	PCT 10 points	LPDDR4 2GB	eMMC 16GB	SIM card slot x 1, USB 3.2 Gen 1 Type-C x 1, Audio jack x 1 (3.5mm), DC-in jack x 1, Micro-SD card slot x 1, USB 2.0 Type-A x 1	G-sensor Gyro-sensor Light-sensor	802.11 b/g/n + BT4.2	—	—	Front: 8MP	—	—	—	32.7W (internal)	DC12V
RTC-710RK-RH0002	RK3399K	Android 8.1	7" 700 nits	PCT 10 points	LPDDR4 2GB	eMMC 16GB	SIM card slot x 1, USB 3.2 Gen 1 Type-C x 1, Audio jack x 1 (3.5mm), DC-in jack x 1, Micro-SD card slot x 1, USB 2.0 Type-A x 1	G-sensor Gyro-sensor Light-sensor	802.11 b/g/n + BT4.2	GPS / GLONASS	—	Front: 8MP Rear: 8MP w/ Flash	Yes	—	Yes	32.7W + 11.3W	DC12V
RTC-710RK-RH0003	RK3399K	Android 8.1	7" 700 nits	PCT 10 points	LPDDR4 2GB	eMMC 16GB	SIM card slot x 1, USB 3.2 Gen 1 Type-C x 1, Audio jack x 1 (3.5mm), DC-in jack x 1, Micro-SD card slot x 1, USB 2.0 Type-A x 1, UART Port x 1 (Via I/O Module), 10/100/1000 Base-T RJ45 x 1 (Via I/O Module)	G-sensor Gyro-sensor Light-sensor	802.11 b/g/n + BT4.2	GPS / GLONASS	—	Front: 8MP Rear: 8MP w/ Flash	Yes	—	Yes	32.7W + 11.3W	DC12V
RTC-710RK-RH0004	RK3399K	Android 8.1	7" 700 nits	PCT 10 points	LPDDR4 2GB*	eMMC 16GB	SIM card slot x 1, USB 3.2 Gen 1 Type-C x 1, Audio jack x 1 (3.5mm), DC-in jack x 1, Micro-SD card slot x 1, USB 2.0 Type-A x 1, 2D BCR x 1 (Via I/O Module)	G-sensor Gyro-sensor Light-sensor	802.11 b/g/n + BT4.2	GPS / GLONASS	—	Front: 8MP Rear: 8MP w/ Flash	Yes	Yes	Yes	32.7W + 11.3W	DC12V
RTC-710RK-RH0005	RK3399K	Android 8.1	7" 700 nits	PCT 10 points	LPDDR4 4GB	eMMC 16GB	SIM card slot x 1, USB 3.2 Gen 1 Type-C x 1, Audio jack x 1 (3.5mm), DC-in jack x 1, Micro-SD card slot x 1, USB 2.0 Type-A x 1	G-sensor Gyro-sensor Light-sensor	802.11 b/g/n + BT4.2	GPS / GLONASS	—	Front: 8MP Rear: 8MP w/ Flash	Yes	—	Yes	32.7W + 11.3W	DC12V

RTC-710AP

7" Rugged Tablet Features Intel® N3350 / N4200 Processor with Windows® 10



Specifications

System Architecture	
Processor	Intel® Celeron® N3350 1.1GHz Dual core up to 2.4GHz Intel® Pentium® N4200 1.1GHz Quad core up to 2.5GHz
Operating System	Windows® 10 IOT Enterprise SAC
Memory	Onboard LPDDR4 4GB (Default) / 8GB
Storage	eMMC 64GB (Default) / 128GB
Display	7" WXGA (1280x800) 300-nit / 700-nit TFT LCD With Projected Capacitive Multi-Touch Screen
I/O Port	SIM card slot x 1 USB 3.2 Gen 1 Type-C x 1 Audio jack x 1 (3.5mm) DC-in jack x 1 Micro-SD card slot x 1 USB 2.0 Type-A x 1 RS-232 COM Port x 1 (Via I/O Module) 10/100/1000 Base-T RJ45 x 1 (Via I/O Module)
Communication	Wi-Fi 802.11 b/g/n, Bluetooth v5.1
Navigation	Up to 3 GNSS, GPS + Galileo (Default), GLONASS, BeiDou (Optional) External Antenna (Optional)
WWAN(optional)	LTE via M.2 slot (Optional) Hot-swappable Battery can not be used when LTE module is installed.
Camera	2MP front camera, 8MP rear camera with flash
Sensor	G-sensor, E-compass, Gyro-sensor, Light-sensor
Expansion Slot	M.2 slot x 1, Docking connector: USB 3.2 Gen 1 x 1
Barcode Scanner (Optional)	2D Barcode scanner, OPTICON MDI-4100-USB via I/O module (Optional)

Features

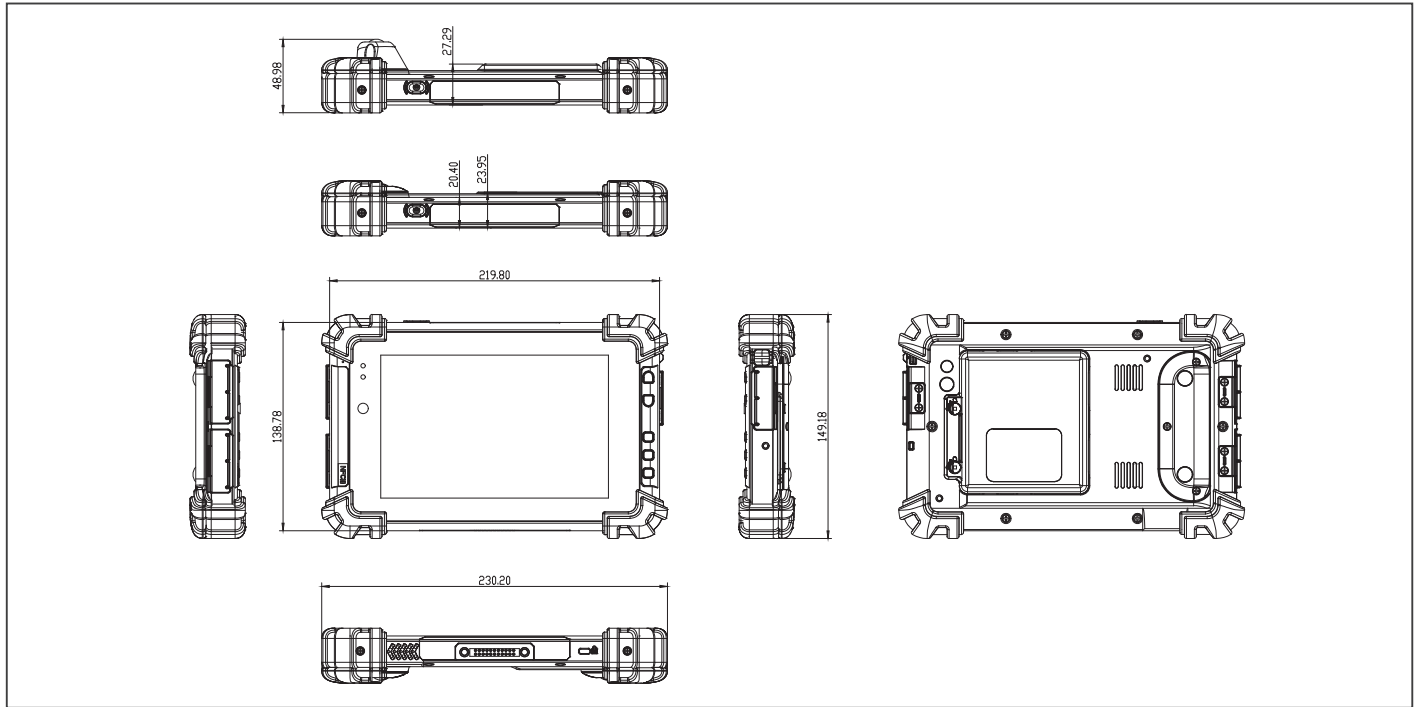
- 7" WXGA (1280 x 800) 700-nit / 300-nit TFT LCD
- Intel® Celeron® N3350 1.1GHz Dual Core Up to 2.4GHz (N4200 Optional)
- Onboard LPDDR4 Memory, 4GB (Default) / 8GB
- eMMC 64GB (Default) / 128GB
- Projected Capacitive Multi-Touch Screen
- WiFi 802.11b/g/n, Bluetooth 5.1, LTE (Optional)
- 2MP Front and 8MP Rear Camera
- RS-232 COM Port + 10/100/1000 Base-T RJ45 via I/O Module (Optional)
- USB 3.2 Gen 1 Type-C x 1, USB 2.0 Type-A x 1
- 2D Barcode Scanner via I/O Module (Optional)
- NFC (HF RFID) Reader (Optional)
- Up to 3 GNSS, GPS + Galileo (Default), GLONASS, BeiDou (Optional)
- One Hot-swappable Battery + Internal Battery, Up to 44W Battery Capacity
- MIL-STD-810G, IP65 Compliant, Drop 122cm
- Programmable Function Key: F1, F2, F3, Volume Up/Down, With LED Illumination
- Windows® 10 IOT



HF RFID (Optional)	ISO 15693 (R/W), ISO 18092 (R/W), ISO 14443-A (R/W), ISO 14443-B (Only Read UID), Depend on card type
Audio	Speaker x 1
Physical Key	F1 (Ctrl+Alt+Del as Soft Reboot), F2 (Screenprint), F3 (Barcode Scanner Trigger), Volume Up, Volume Down
Mechanical	
Color	Dark Gray
Dimension (W x H x D)	8.65" x 5.46" x 0.94" (219.8 x 138.8 x 23.9 mm)
Gross Weight	1.54 lb (0.7 Kg) based on configurations
Environmental	
Operating Temperature	-4°F ~ 122°F (-20°C ~ 50°C) for high-brightness version
Storage Temperature	-22°F ~ 158°F (-30°C ~ 70°C)
Humidity	MIL-STD-810G Method 507.5
Environmental Sealing	IP65
Vibration	MIL-STD-810G Method 514.6
Drop	MIL-STD-810G Method 516.6 Procedure IV Height of Drop: 122 cm (48 inch; 4 ft)
Shock	—
ESD	Air charge: +/- 8KV, Contact charge: +/- 4KV
Certifications and Standards	CE, FCC
Power Supply	
AC / DC Adapter	AC 100 ~ 240 V, 50 ~ 60 Hz, Output: 12V/ 3.34A/ 40W
Battery Life	Li-ion Battery 8-hour battery life based on test configurations
Master Battery	7.2V, 4540mAh, 32.7W
Slave Battery	Hot-swappable battery: 7.4V, 1530mAh, 11.3W (Optional)
Display	
LCD	7" TFT-LCD / 16:10, with LED backlight
Resolution	1280 x 800
Maximum Color	—
Dot Size	0.03925(H) X 0.11775(V) mm
Brightness	700 / 300 nits
Viewing Angle	Horizontal: 178° (Typ.), Vertical: 178° (Typ.)
Touch Screen	
Touch Type	7" Projected Capacitive Multi-Touch Screen (700 nits with 10 points / 300 nits with 5 points)
Light Transmission	Min. 85%

Dimension

Unit: mm



Packing List

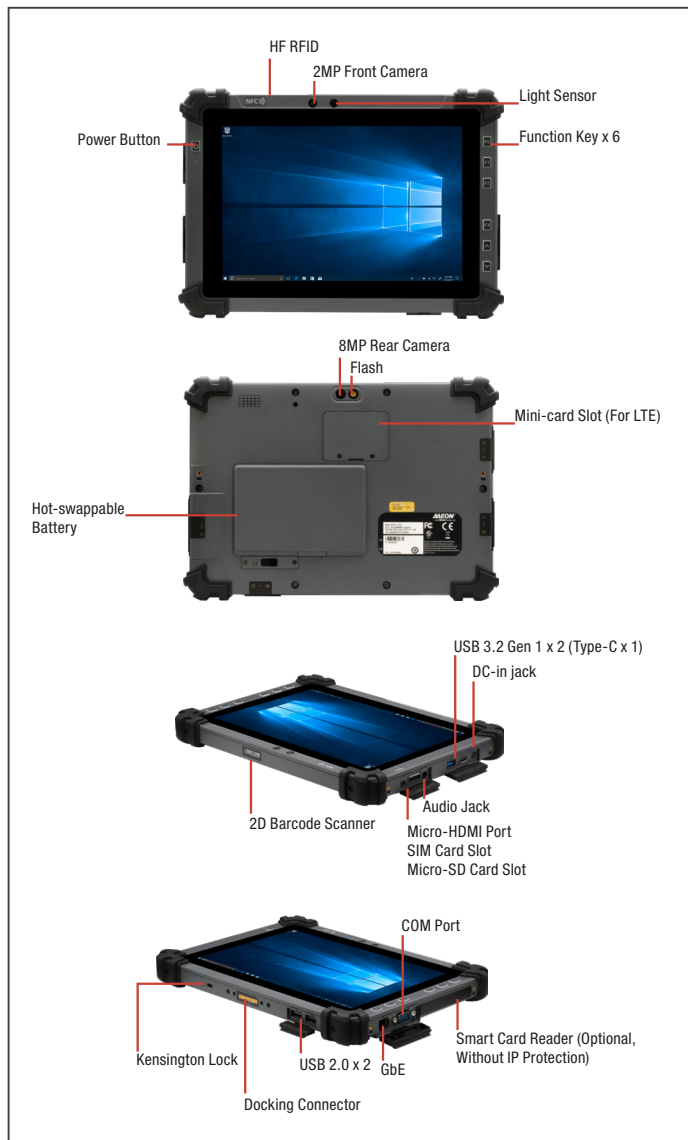
- **RTC-710AP**
 - **1255X00008**
AC-To-DC Power Adaptor, 12V, 40W
- *Power cord must be purchased separately.

Optional Accessories

- **RDS-0710-000**
Docking Station
- **RDS-0710-001**
Docking Station, W/ Stand
- **RTC-710-HS-000**
Hand Strap
- **RTC-710-BAG-000**
Carry Bag
- **RDS-0040-0000**
4-Bay Battery Charger
- **9741600R04**
Battery Pack, 7.4V, 1530mAh, 2pcs/Box
- **RTC-710-VMP-000**
VESA Mount Plate
- **1259X00003**
Car Adapter, Cigarette Plug
- **1702031802**
Power Cord for USA
- **1702031803**
Power Cord for Europe
- **170203180J**
Power Cord for UK
- **170203180E**
Power Cord for Japan

Ordering Information

Part Number	CPU	OS	LCD Display	Touch Screen	System Memory	Storage	Expansion I/O	Sensor	WiFi/Bluetooth	Navigation	LTE Bands (MHz)	Camera	Docking Connector	2D Barcode Scanner	NFC	Battery	Power
RTC-710AP-RH0001	N4200	Windows 10 IOT	7" 700 nits	PCT 10 points	LPDDR4 4GB	eMMC 64GB	SIM card slot x 1, USB 3.2 Gen 1 Type-C x 1, Audio jack x 1 (3.5mm), DC-in jack x 1, Micro-SD card slot x 1, USB 2.0 Type-A x 1	G-sensor, E-compass, Gyro-sensor, Light-sensor	802.11 b/g/n + BT4.2	—	—	Front: 2MP	—	—	—	32.7W (internal)	DC12V
RTC-710AP-RH0002	N4200	Windows 10 IOT	7" 700 nits	PCT 10 points	LPDDR4 4GB	eMMC 64GB	SIM card slot x 1, USB 3.2 Gen 1 Type-C x 1, Audio jack x 1 (3.5mm), DC-in jack x 1, Micro-SD card slot x 1, USB 2.0 Type-A x 1	G-sensor, E-compass, Gyro-sensor, Light-sensor	802.11 b/g/n + BT4.2	GPS / Galileo / GLONASS	—	Front: 2MP, Rear: 8MP w/ Flash	Yes	—	Yes	32.7W (internal) +11.3W(external)	DC12V
RTC-710AP-RH0003	N4200	Windows 10 IOT	7" 700 nits	PCT 10 points	LPDDR4 4GB*	eMMC 64GB	SIM card slot x 1, USB 3.2 Gen 1 Type-C x 1, Audio jack x 1 (3.5mm), DC-in jack x 1, Micro-SD card slot x 1, USB 2.0 Type-A x 1, RS232 Port x 1 (Via I/O Module), 10/100/1000 Base-T RJ45 x 1 (Via I/O Module)	G-sensor, E-compass, Gyro-sensor, Light-sensor	802.11 b/g/n + BT4.2	GPS / Galileo / GLONASS	—	Front: 2MP, Rear: 8MP w/ Flash	Yes	—	—	32.7W (internal) +11.3W(external)	DC12V
RTC-710AP-RH0004	N4200	Windows 10 IOT	7" 700 nits	PCT 10 points	LPDDR4 4GB	eMMC 64GB	SIM card slot x 1, USB 3.2 Gen 1 Type-C x 1, Audio jack x 1 (3.5mm), DC-in jack x 1, Micro-SD card slot x 1, USB 2.0 Type-A x 1, 2D BCR x 1 (Via I/O Module)	G-sensor, E-compass, Gyro-sensor, Light-sensor	802.11 b/g/n + BT4.2	GPS / Galileo / GLONASS	—	Front: 2MP, Rear: 8MP w/ Flash	Yes	Yes	Yes	32.7W (internal) +11.3W (external)	DC12V



Specifications

System Architecture	
Processor	Intel® Celeron® N3350 1.1GHz Dual core up to 2.4GHz Intel® Pentium® N4200 1.1GHz Quad core up to 2.5GHz
Operating System	Windows® 10 IoT Enterprise SAC
Memory	Onboard DDR3L 4GB (Default) / 8GB
Storage	eMMC 64GB (Up to 256GB, Optional)
Display	10.1" WXGA (1280x800) 800-nit / 300-nit TFT LCD With Projected Capacitive Multi-Touch Screen
I/O Port	Micro-HDMI port x 1 SIM card slot x 1 Micro-SD card slot x 1 Audio jack x 1 (3.5mm) USB 3.2 Gen 1 x 2 (USB Type-C x 1), USB 2.0 x 2 DC-in jack x 1 RS-232/422/485 COM Port x 1 10/100/1000 Base-T RJ45 x 1 Smart card reader x 1 (Optional, Without IP protection)
Communication	Wi-Fi 802.11 b/g/n, Bluetooth v5.1 (EDR + BLE), Intel AC9260
Navigation	Up to 3 GNSS, GPS + Galileo (Default), GLONASS, BeiDou (Optional)
WWAN(optional)	LTE via mini-card slot (Optional)
Camera	2MP front camera 8MP rear camera with flash
Sensor	G-sensor, E-compass, Gyro-sensor, Light-sensor
Expansion Slot	Inside M.2 slot x 1 (For WiFi module) Mini-card slot x 1 (For LTE module) Docking connector: USB 2.0 x 1

Features

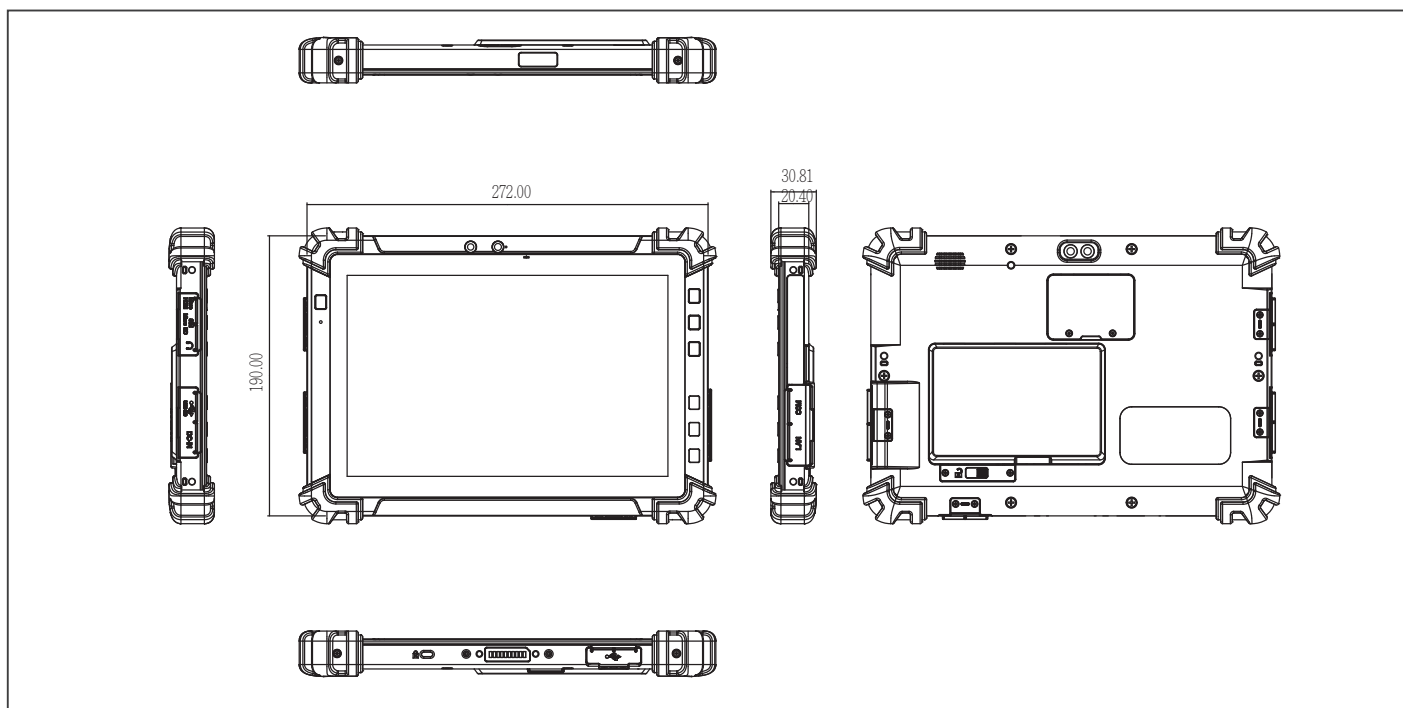
- 10.1" WXGA (1280 x 800) 800-nit / 300-nit TFT LCD
- Intel® Celeron® N3350 1.1GHz Dual Core Up to 2.4GHz (N4200 Optional)
- Onboard DDR3L Memory, 4GB (Default) / 8GB
- eMMC 64GB (Up to 256GB, Optional)
- WiFi 802.11b/g/n, Bluetooth 5.1, LTE (Optional)
- 2MP Front and 8MP Rear Camera
- RS-232/422/485 COM Port + 10/100/1000 Base-T RJ45
- USB 3.2 Gen 1 x 2 (USB Type-C x 1), USB 2.0 x 2
- 2D Barcode Scanner & Smart Card Reader / HF RFID (NFC) Reader (Optional)
- Up to 3 GNSS, GPS + Galileo (Default), GLONASS, BeiDou (Optional)
- One Hot-swappable Battery + Internal Battery, Up to 44W Battery Capacity
- MIL-STD-810G, IP65 Compliant, Drop 122cm
- Programmable Function Key: F0, F1, F2, F3, Volume Up/Down, With LED Illumination
- Windows® 10 IoT



Barcode Scanner (Optional)	2D Barcode scanner, OPTICON MDI-4100-USB (Optional)
HF RFID (Optional)	ISO 15693 (R/W), ISO 18092 (R/W), ISO 14443-A (R/W), ISO 14443-B (Only Read UID), Depend on card type
Audio	Speaker x 1
Physical Key	F0 or Windows (Windows Start Key), F1 (BCR Trigger Button (When BCR is enabled)), F2 (Screenprint), F3 (Ctrl+Alt+Del as Soft Reboot), Volume Up (Speaker Volume Up), Volume Down (Speaker Volume Down)
Mechanical	
Color	Black & Dark Grey
Dimension (W x H x D)	10.71" x 7.48" x 0.80" (272.0 x 190.0 x 20.4 mm)
Gross Weight	1.0 Kg (2.2 lb) based on configurations
Environmental	
Operating Temperature	-4°F ~ 122°F (-20°C ~ 50°C)
Storage Temperature	-67°F ~ 158°F (-55°C ~ 70°C)
Humidity	0% ~ 90% relative humidity, non-condensing
Environmental Sealing	IP65
Vibration	MIL-STD-810G-514.6 Procedure I Cat.24, Fig 514.6E-1 & 514.6E-2 (Unit is non-operating) ASTM 4169-99 Truck Assurance Level II, Schedule E (Unit is non-operating)
Drop	MIL-STD-810G-516.6, Procedure IV Drop height: 122 cm Number of Drop: 26 times, for all surfaces, edges and corners Condition: Based on 2" plywood over concrete
Shock	—
ESD	Air charge: +/- 8KV, Contact charge: +/- 4KV
Certifications and Standards	UL60950-1, CE, FCC
Power Supply	
AC / DC Adapter	AC 100 ~ 240 V, 50 ~ 60 Hz, Output: 12W/ 3A/ 36W
Battery Life	Li-ion Battery 8-hour battery life based on test configurations
Master Battery	Hot-swappable battery: 14.4V, 2270mAh, 32.7W
Slave Battery	7.4V, 1530mAh, 11.3W
Display	
LCD	10.1" TFT-LCD Display
Resolution	1280 x 800
Maximum Color	16.7M
Dot Size	0.1692 (H) x 0.1692 (V) mm
Brightness	300 nits (800 nits, Optional)
Viewing Angle	Horizontal: 170°, Vertical: 170° (Typical)
Touch Screen	
Touch Type	Projected Capacitive Multi-Touch Screen (PCT)
Light Transmission	Min. 85%

Dimension

Unit: mm



Packing List

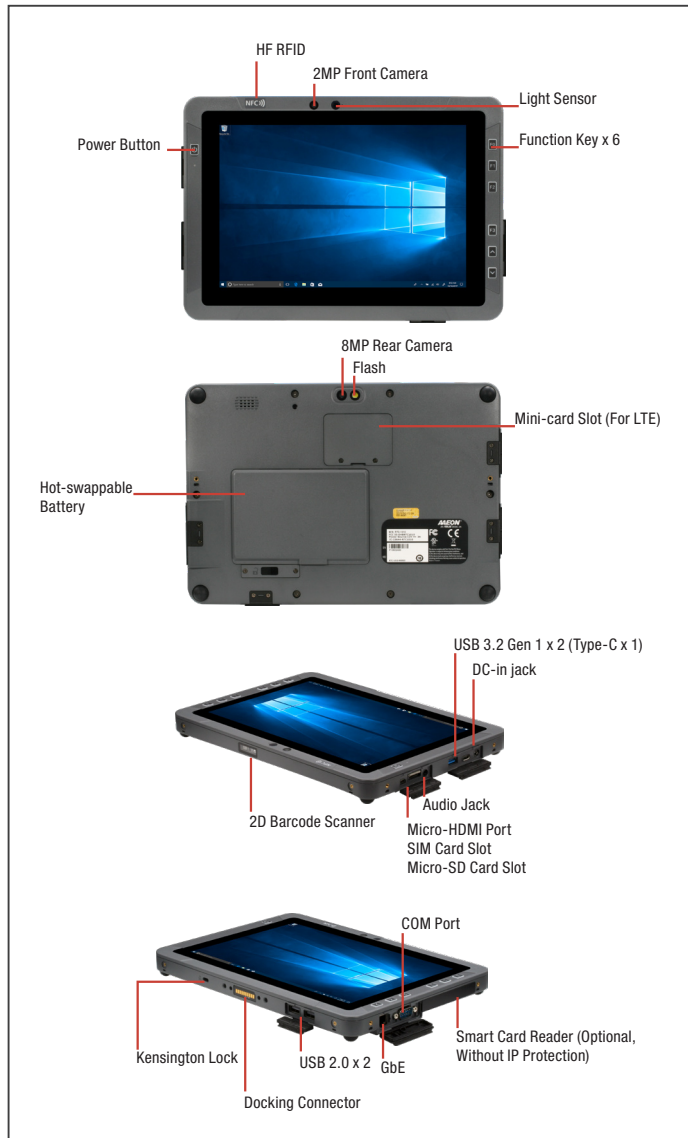
- **RTC-1010**
 - **1255300365**
AC-To-DC Power Adaptor, 12V, 36W
- *Power cord must be purchased separately.

Optional Accessories

- **RDS-411-000**
Docking Station, W/O Stand
- **RDS-411-001**
Docking Station, W/ Stand
- **RBC-1200-000**
4-bay Battery Charger
- **RTC-1010-HS-000**
Hand Strap
- **RTC-1010-SB-000**
Shoulder Belt, 2 Points
- **RTC-1200BAT01-000**
Battery Pack, 14.4V, 2270mAh , 2 pcs/Box
- **1255900363**
DC-To-DC Power Adaptor, Flying Wires
- **1255900364**
DC-To-DC Power Adaptor, Cigarette Plug
- **1702031802**
Power Cord for US
- **1702031803**
Power Cord for EU
- **170203180J**
Power Cord for UK
- **170203180E**
Power Cord for Japan

Ordering Information

Part Number	CPU	OS	LCD Display	Touch Screen	System Memory	Storage	Expansion I/O	Sensor	WiFi/Bluetooth	Navigation	LTE Bands (MHz)	Camera	2D Barcode Scanner	NFC	Battery	Power
RTC-1010-R2004	N3350	Windows 10 IOT	10.1" 300 nits	PCT 10 points	DDR3L 4GB	eMMC 64GB	Micro-HDMI port x 1, SIM card slot x 1, Micro-SD card slot x 1, Audio jack x 1, USB 3.0 x 2 (USB Type-C x 1), USB 2.0 x 2 DC-in jack x 1	G-sensor E-compass Gyro-sensor Light-sensor"	802.11 b/g/n + BT5.1	N/A	N/A	Front: 2MP	N/A	N/A	32.7W	DC12V
RTC-1010-R2005	N3350	Windows 10 IOT	10.1" 300 nits	PCT 10 points	DDR3L 4GB	eMMC 64GB	Micro-HDMI port x 1, SIM card slot x 1, Micro-SD card slot x 1, Audio jack x 1, USB 3.0 x 2 (USB Type-C x 1), USB 2.0 x 2 DC-in jack x 1, RS-232/422/485 COM Port x 1, 10/100/1000 Base-T RJ45 x 1	"G-sensor E-compass Gyro-sensor Light-sensor"	802.11 b/g/n + BT5.1	GPS / Galileo / GLONASS	N/A	"Front: 2MP Rear: 8MP w/ Flash"	N/A	N/A	32.7W + 11.3W	DC12V
RTC-1010-R2001	N3350	Windows 10 IOT	10.1" 300 nits	PCT 10 points	DDR3L 4GB	eMMC 64GB	Micro-HDMI port x 1, SIM card slot x 1, Micro-SD card slot x 1, Audio jack x 1, USB 3.0 x 2 (USB Type-C x 1), USB 2.0 x 2 DC-in jack x 1, RS-232/422/485 COM Port x 1, 10/100/1000 Base-T RJ45 x 1	G-sensor E-compass Gyro-sensor Light-sensor"	802.11 b/g/n + BT5.1	GPS / Galileo / GLONASS	N/A	"Front: 2MP Rear: 8MP w/ Flash"	Yes	Yes	32.7W + 11.3W	DC12V
RTC-1010-R2003	N4200	Windows 10 IOT	10.1" 300 nits	PCT 10 points	DDR3L 4GB	eMMC 64GB	Micro-HDMI port x 1, SIM card slot x 1, Micro-SD card slot x 1, Audio jack x 1, USB 3.0 x 2 (USB Type-C x 1), USB 2.0 x 2 DC-in jack x 1, RS-232/422/485 COM Port x 1, 10/100/1000 Base-T RJ45 x 1	G-sensor E-compass Gyro-sensor Light-sensor"	802.11 b/g/n + BT5.1	GPS / Galileo / GLONASS	N/A	"Front: 2MP Rear: 8MP w/ Flash"	Yes	Yes	32.7W + 11.3W	DC12V
RTC-1010-RH2005	N3350	Windows 10 IOT	10.1" 800 nits	PCT 10 points	DDR3L 4GB	eMMC 64GB	Micro-HDMI port x 1, SIM card slot x 1, Micro-SD card slot x 1, Audio jack x 1, USB 3.0 x 2 (USB Type-C x 1), USB 2.0 x 2 DC-in jack x 1, RS-232/422/485 COM Port x 1, 10/100/1000 Base-T RJ45 x 1	G-sensor E-compass Gyro-sensor Light-sensor"	"802.11 b/g/n + BT5.1"	GPS / Galileo / GLONASS	N/A	"Front: 2MP Rear: 8MP w/ Flash"	N/A	N/A	32.7W + 11.3W	DC12V
RTC-1010-RH2003	N4200	Windows 10 IOT	10.1" 800 nits	PCT 10 points	DDR3L 4GB	eMMC 64GB	Micro-HDMI port x 1, SIM card slot x 1, Micro-SD card slot x 1, Audio jack x 1, USB 3.0 x 2 (USB Type-C x 1), USB 2.0 x 2 DC-in jack x 1, RS-232/422/485 COM Port x 1, 10/100/1000 Base-T RJ45 x 1	G-sensor E-compass Gyro-sensor Light-sensor"	802.11 b/g/n + BT5.1	GPS / Galileo / GLONASS	N/A	"Front: 2MP Rear: 8MP w/ Flash"	Yes	Yes	32.7W + 11.3W	DC12V



Specifications

System Architecture	
Processor	Intel® Celeron® N3350 1.1GHz Dual core up to 2.4GHz Intel® Pentium® N4200 1.1GHz Quad core up to 2.5GHz
Operating System	Windows® 10 IOT Enterprise SAC
Memory	Onboard DDR3L 4GB (Default) / 8GB
Storage	eMMC 64GB (Up to 256GB, Optional)
Display	10.1" WXGA (1280x800) 300-nit TFT LCD With Projected Capacitive Multi-Touch Screen
I/O Port	Micro-HDMI port x 1, SIM card slot x 1, Micro-SD card slot x 1 Audio jack x 1 (3.5mm), USB 3.2 Gen 1 x 2 (USB Type-C x 1), USB 2.0 x 2, DC-in jack x 1 RS-232/422/485 COM Port x 1 (Optional) 10/100/1000 Base-T RJ45 x 1 (Optional) Smart card reader x 1 (Optional, Without IP protection) MSR reader x 1 (Optional, Without IP protection)
Communication	Wi-Fi 802.11 b/g/n, Bluetooth v5.1 (EDR + BLE), Intel AC9260
Navigation	Up to 3 GNSS, GPS + Galileo (Default), GLONASS, BeiDou (Optional)
WWAN(optional)	LTE via mini-card slot (Optional)
Camera	2MP front camera, 8MP rear camera with flash
Sensor	G-sensor, E-compass, Gyro-sensor, Light-sensor
Expansion Slot	Inside M.2 slot x 1 (For WiFi module) Mini-card slot x 1 (For LTE module) Docking connector: USB 2.0 x 1
Barcode Scanner (Optional)	2D Barcode scanner, OPTICON MDI-4100-USB (Optional)

Features

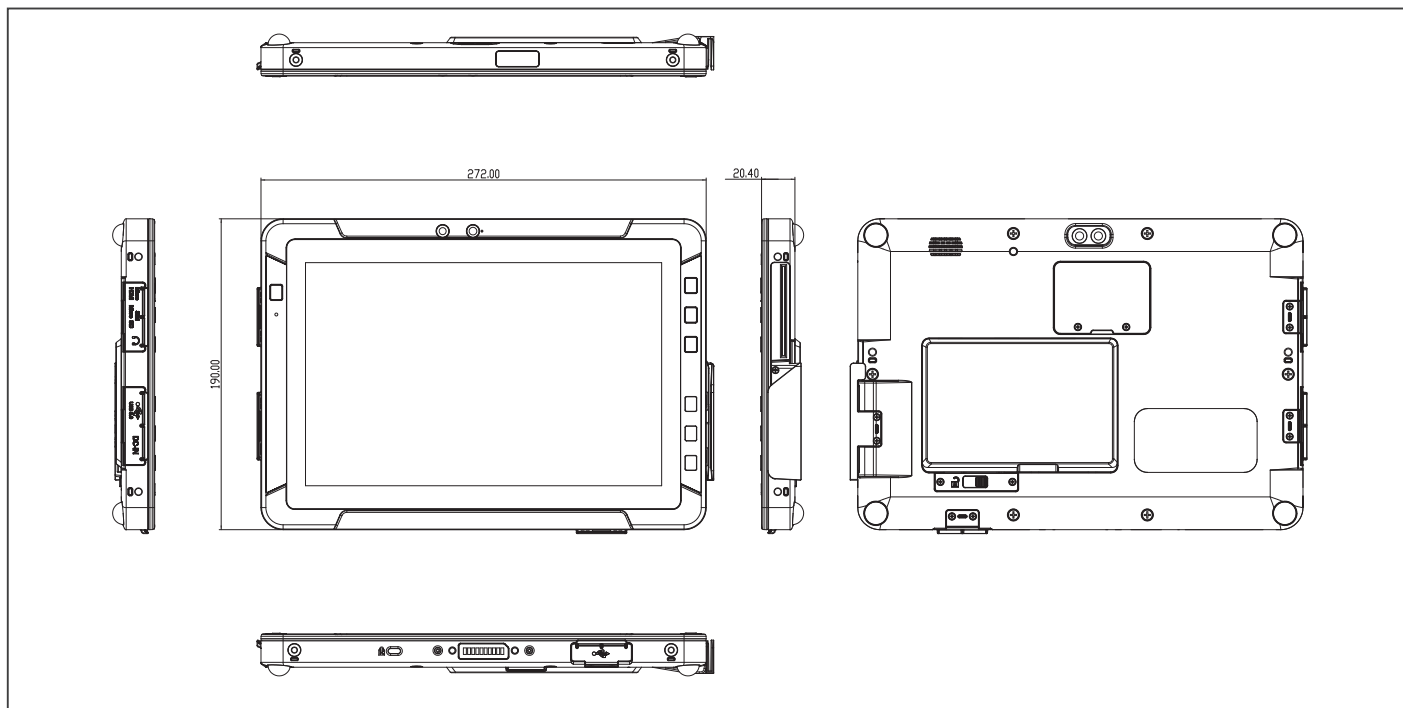
- 10.1" WXGA (1280 x 800) 300-nit TFT LCD (Default)
- Intel® Celeron® N3350 1.1GHz Dual Core Up to 2.4GHz (N4200 Optional)
- Onboard DDR3L Memory, 4GB (Default) / 8GB
- eMMC 64GB (Up to 256GB, Optional)
- WiFi 802.11b/g/n, Bluetooth 5.1, LTE (Optional)
- 2MP Front and 8MP Rear Camera
- RS-232/422/485 COM Port + 10/100/1000 Base-T RJ45 (Optional)
- USB 3.2 Gen 1 x 2 (USB Type-C x 1), USB 2.0 x 2
- 2D Barcode Scanner & Smart Card Reader (Optional)
- HF RFID (NFC) / MSR Reader (Optional)
- Up to 3 GNSS, GPS + Galileo (Default), GLONASS, BeiDou (Optional)
- One Hot-swappable Battery + Internal Battery, Up to 44W Battery Capacity
- IP54 Compliant, Drop 76cm
- Programmable Function Key: F0, F1, F2, F3, Volume Up/Down, With LED Illumination
- Windows® 10 IOT



HF RFID (Optional)	ISO 15693 (R/W), ISO 18092 (R/W), ISO 14443-A (R/W), ISO 14443-B (Only Read UID), Depend on card type
Audio	Speaker x 1
Physical Key	F0 or Windows (Windows Start Key), F1 (BCR Trigger Button (When BCR is enabled)), F2 (Screenprint), F3 (Ctrl+Alt+Del as Soft Reboot), Volume Up (Speaker Volume Up), Volume Down (Speaker Volume Down)
Mechanical	
Color	Black & Dark Grey
Dimension (W x H x D)	10.71" x 7.48" x 0.80" (272.0 x 190.0 x 20.4 mm)
Gross Weight	2.1 lb (0.95 Kg) based on configurations
Environmental	
Operating Temperature	-4°F ~ 122°F (-20°C ~ 50°C)
Storage Temperature	-22°F ~ 158°F (-30°C ~ 70°C)
Humidity	0% ~ 90% relative humidity, non-condensing
Environmental Sealing	IP54
Vibration	—
Drop	Drop height: 76 cm Condition: Based on 2" plywood over concrete
Shock	—
ESD	Air charge: +/- 8KV, Contact charge: +/- 4KV
Certifications and Standards	UL60950-1, CE, FCC
Power Supply	
AC / DC Adapter	AC 100 ~ 240 V, 50 ~ 60 Hz, Output: 12V/ 3A/ 36W
Battery Life	Li-ion Battery 8-hour battery life based on test configurations
Master Battery	Hot-swappable battery: 14.4V, 2270mAh, 32.7W
Slave Battery	7.4V, 1530mAh, 11.3W
Display	
LCD	10.1" TFT-LCD Display
Resolution	1280 x 800
Maximum Color	16.7M
Dot Size	0.1692 (H) x 0.1692 (V) mm
Brightness	300 nits (800 nits, Optional)
Viewing Angle	Horizontal: 170°, Vertical: 170° (Typical)
Touch Screen	
Touch Type	Projected Capacitive Multi-Touch Screen (PCT)
Light Transmission	Min. 85%

Dimension

Unit: mm



Packing List

- **RTC-1010M**
 - **1255300365**
AC-To-DC Power Adaptor, 12V, 36W
- *Power cord must be purchased separately.

Optional Accessories

- **RDS-411-000**
Docking Station, W/O Stand
- **RDS-411-001**
Docking Station, W/ Stand
- **RBC-1200-000**
4-bay Battery Charger
- **RTC-1010-HS-000**
Hand Strap
- **RTC-1010-SB-000**
Shoulder Belt, 2 Points
- **RTC-1200BAT01-000**
Battery Pack, 14.4V, 2270mAh, 2 pcs/Box

Ordering Information

Part Number	CPU	OS	LCD Display	Touch Screen	System Memory	Storage	Expansion I/O	Sensor	WiFi/Bluetooth	Navigation	LTE Bands (MHz)	Camera	2D Barcode Scanner	SCR	HF RFID	MSR	Battery	Power
RTC-1010-M2002	N3350	Windows 10 IOT	10.1" 300 nits	PCT 10 points	DDR3L 4GB	eMMC 64GB	Micro-HDMI port x 1 SIM card slot x 1 Micro-SD card slot x 1 Audio jack x 1 USB 3.0 x 2 (USB Type-C x 1), USB 2.0 x 2 DC-in jack x 1	G-sensor E-compass Gyro-sensor Light-sensor	802.11 b/g/n + BT5.1	—	—	Front: 2MP	—	—	—	—	32.7W	DC12V
RTC-1010-M2001	N3350	Windows 10 IOT	10.1" 300 nits	PCT 10 points	DDR3L 4GB*	eMMC 64GB	Micro-HDMI port x 1 SIM card slot x 1 Micro-SD card slot x 1 Audio jack x 1 USB 3.0 x 2 (USB Type-C x 1), USB 2.0 x 2 DC-in jack x 1	G-sensor E-compass Gyro-sensor Light-sensor	802.11 b/g/n + BT5.1	GPS / Galileo / GLONASS	—	Front: 2MP Rear: 8MP w/ Flash	Yes	Yes	Yes	Yes	32.7W + 11.3W	DC12V
RTC-1010-M2003	N4200	Windows 10 IOT	10.1" 300 nits	PCT 10 points	DDR3L 4GB	eMMC 64GB	Micro-HDMI port x 1 SIM card slot x 1 Micro-SD card slot x 1 Audio jack x 1 USB 3.0 x 2 (USB Type-C x 1), USB 2.0 x 2 DC-in jack x 1 RS-232/422/485 COM Port x 1 10/100/1000 Base-T RJ45 x 1	G-sensor E-compass Gyro-sensor Light-sensor	802.11 b/g/n + BT5.1	GPS / Galileo / GLONASS	—	Front: 2MP Rear: 8MP w/ Flash	Yes	—	Yes	—	32.7W + 11.3W	DC12V

RTC-1020 PRELIMINARY

10.1" Rugged Tablet Features Intel Tiger Lake Up To x.x GHz x Core Processor with Windows® 10



Specifications

System Architecture	
Processor	Intel® Core™ i Tiger Lake UP3 processor i5-1145G7E / i3-1115G4E / Celeron 6305E
Operating System	Windows® 10 IOT Enterprise SAC (Default), Ubuntu
Memory	Onboard LPDDR4X, 8GB (Default) / 16GB
Storage	M.2 SSD, 64GB (Default) / 128GB / 256GB
Display	10.1" FHD (1920x1200) 450-nit / 850-nit TFT-LCD With Projected Capacitive Multi-Touch Screen
I/O Port	Micro-HDMI port x 1, SIM card slot x 1, Micro-SD card slot x 1, Audio jack x 1 (3.5mm), USB 3.2 Gen 1 x 2 (USB Type-C x 1), USB 2.0 x 2, DC-in Jack x 1, RS-232/422/485 COM Port x 1, 10/100/1000 Base-T RJ45 x 1
Communication	Wi-Fi 802.11 b/g/n Bluetooth v5.1 (EDR + BLE) Intel AC9260
Navigation	Up to 3 GNSS, GPS + Galileo (Default), GLONASS, BeiDou (Optional)
WWAN(optional)	LTE via M.2 slot (Optional)
Camera	5MP front camera, 8MP rear camera with flash
Sensor	G-sensor, E-compass, Gyro-sensor, Light-sensor
Expansion Slot	M.2 slot x 3 (One for SSD, One for WiFi module, One for LTE module) Docking connector x 1: USB 3.2 Gen 1 x 1
Barcode Scanner (Optional)	2D Barcode scanner, OPTICON MDI-4100-USB (Optional)
HF RFID (Optional)	ISO 15693 (R/W), ISO 18092 (R/W), ISO 14443-A (R/W), ISO 14443-B (Only Read UID), Depend on card type

Features

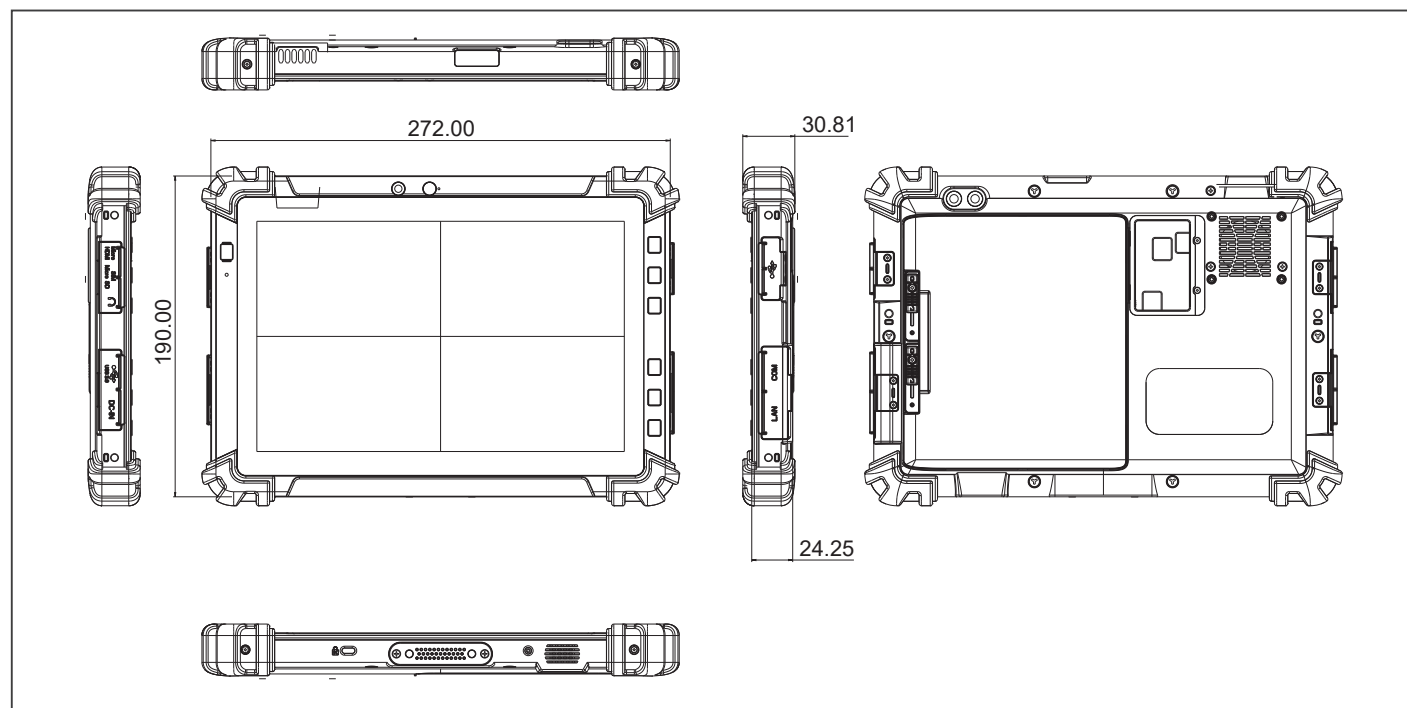
- 10.1" FHD (1920 x 1200) 450-nit / 850-nit TFT LCD
- Intel® Core™ i Tiger Lake UP3 Processor
- Onboard LPDDR4X, 8GB (Default) / 16GB
- M.2 SSD, 64GB (Default) / 128GB / 256GB
- WiFi 802.11b/g/n, Bluetooth 5.1, LTE (Optional)
- 5MP Front and 8MP Rear Camera
- RS-232/422/485 COM Port + 10/100/1000 Base-T RJ45
- USB 3.2 Gen 1 x 2 (USB Type-C x 1), USB 2.0 x 2
- 2D Barcode Scanner (Optional)
- HF RFID (NFC) Reader (Optional)
- Up to 3 GNSS, GPS + Galileo (Default), GLONASS, BeiDou (Optional)
- Hot-swappable Battery, 14.4V/ 2270mAh, 32.7W x 2 (51.1W x 2, Optional)
- MIL-STD-810G, IP65 Compliant, Drop 122cm
- Programmable Function Key: F0, F1, F2, F3, Volume Up/Down, With LED Illumination
- Windows® 10 IOT (Default), Ubuntu



Audio	Speaker x 1
Physical Key	F0 or Windows (Windows Start Key), F1 (BCR Trigger Button (When BCR is enabled)), F2 (Screenprint), F3 (Ctrl+Alt+Del as Soft Reboot), Volume Up (Speaker Volume Up), Volume Down (Speaker Volume Down)
Mechanical	
Color	Black & Dark Grey
Dimension (W x H x D)	10.71" x 7.48" x 0.94" (272.0 x 190.0 x 24.0 mm)
Gross Weight	1.5 Kg (3.3 lbs) based on configurations
Environmental	
Operating Temperature	-4°F ~ 122°F (-20°C ~ 50°C)
Storage Temperature	-22°F ~ 158°F (-30°C ~ 70°C)
Humidity	0% ~ 90% relative humidity, non-condensing
Environmental Sealing	IP65
Vibration	MIL-STD-810G-514.6 Procedure I Cat.24, Fig 514.6E-1 & 514.6E-2 (Unit is non-operating)
Drop	MIL-STD-810G-516.6 Procedure IV Drop height: 122cm Number of Drop: 26 times, for all surfaces, edges and corners Condition: Based on 2" plywood over concrete
Shock	—
ESD	Air charge: +/- 8KV, Contact charge: +/- 4KV
Certifications and Standards	UL62368, CE, FCC, IC
Power Supply	
AC / DC Adapter	AC 100 ~ 240 V, 50 ~ 60 Hz, Output: 19V/ 3.42A/ 65W
Battery Life	Li-ion Battery 6-hour battery life based on test configurations
Master Battery	Hot-swappable battery: 14.4V, 2270mAh, 32.7W 14.8V, 3450mAh, 51.1W (Optional)
Slave Battery	Hot-swappable battery: 14.4V, 2270mAh, 32.7W 14.8V, 3450mAh, 51.1W (Optional)
Display	
LCD	10.1" TFT-LCD Display
Resolution	1920 x 1200
Maximum Color	16.7M
Dot Size	—
Brightness	450 nits (850 nits, Optional)
Viewing Angle	Horizontal: 160°, Vertical: 160° (Typical)
Touch Screen	
Touch Type	Projected Capacitive Multi-Touch Screen (PCT)
Light Transmission	Min. 85%

Dimension

Unit: mm



Packing List

- **RTC-1020**
 - **125530065A**
AC-To-DC Power Adaptor, 19V, 65W
- *Power cord must be purchased separately.

Optional Accessories

- **RDS-1020-000**
Docking Station, W/O Stand
- **RDS-1020-001**
Docking Station, W/ Stand
- **RBC-1200-000**
4-bay Battery Charger, for 32.7W battery pack
- **RBC-1020-000**
4-bay Battery Charger, for 51.1W battery pack
- **RTC-1010-HS-000**
Hand Strap
- **RTC-1010-SB-000**
Shoulder Belt, 2 Points
- **RTC-1200BAT01-000**
Battery Pack, 14.4V, 2,270mAh, 2 pcs/Box
- **RTC-1020-BAT-000**
Battery Pack, 14.8V, 3,450mAh, 2 pcs/Box
- **1259X00004**
DC-To-DC Power Adaptor, Flying Wires
- **1255900901**
DC-To-DC Power Adaptor, Cigarette Plug
- **1702031830**
Power Cord for US
- **1702031831**
Power Cord for EU
- **1702031835**
Power Cord for UK
- **1702031810**
Power Cord for Japan

Ordering Information

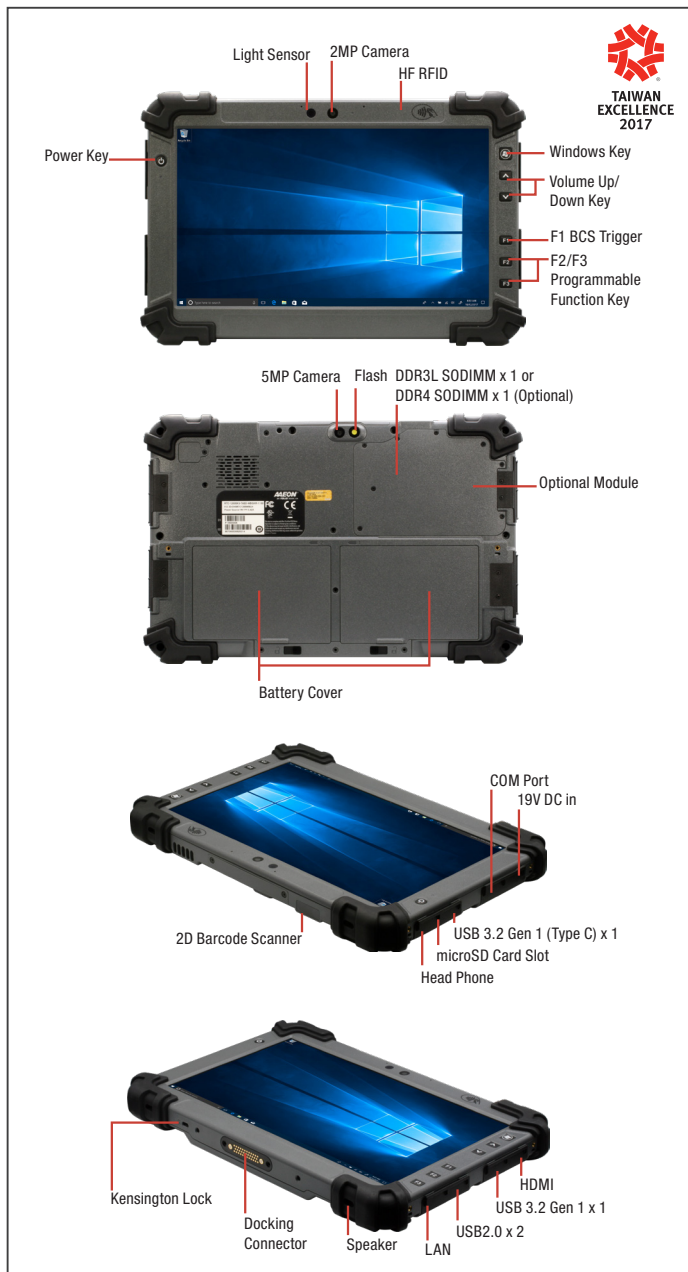
Part Number	CPU	OS	LCD Display	Touch Screen	System Memory	Storage	Expansion I/O	Sensor	WiFi/Bluetooth	Navigation	LTE Bands (MHz)	Camera	2D Barcode Scanner	NFC	Battery	Power
RTC-1020-RH0001	Celeron 6305E	Windows 10 IOT	10.1" 450 nits	PCT 10 points	Onboard LPDDR4X 8GB	M.2 64GB	Micro-HDMI port x 1, SIM card slot x 1 Micro-SD card slot x 1, Audio jack x 1 USB 3.2 Gen 1 x 2 (USB Type-C x 1), USB 2.0 x 2, DC-in jack x 1 RS-232/422/485 COM Port x 1 10/100/1000 Base-T RJ45 x 1	G-sensor E-compass Gyro-sensor Light-sensor	802.11 b/g/n + BT5.1	GPS / Galileo / GLONASS	—	Front: 5MP Rear: 8MP w/ Flash	—	—	32.7W + 32.7W	DC19V
RTC-1020-RH0001	Celeron 6305E	Windows 10 IOT	10.1" 850 nits	PCT 10 points	Onboard LPDDR4X 8GB	M.2 64GB	Micro-HDMI port x 1, SIM card slot x 1 Micro-SD card slot x 1, Audio jack x 1 USB 3.2 Gen 1 x 2 (USB Type-C x 1), USB 2.0 x 2, DC-in jack x 1 RS-232/422/485 COM Port x 1 10/100/1000 Base-T RJ45 x 1	G-sensor E-compass Gyro-sensor Light-sensor	802.11 b/g/n + BT5.1	GPS / Galileo / GLONASS	—	Front: 5MP Rear: 8MP w/ Flash	—	—	32.7W + 32.7W	DC19V
RTC-1020-RH0002	i3-1115G4E	Windows 10 IOT	10.1" 850 nits	PCT 10 points	Onboard LPDDR4X 8GB	M.2 64GB	Micro-HDMI port x 1, SIM card slot x 1 Micro-SD card slot x 1, Audio jack x 1 USB 3.2 Gen 1 x 2 (USB Type-C x 1), USB 2.0 x 2, DC-in jack x 1 RS-232/422/485 COM Port x 1 10/100/1000 Base-T RJ45 x 1	G-sensor E-compass Gyro-sensor Light-sensor	802.11 b/g/n + BT5.1	GPS / Galileo / GLONASS	—	Front: 5MP Rear: 8MP w/ Flash	—	Yes	32.7W + 32.7W	DC19V
RTC-1020-RH0003	i3-1115G4E	Windows 10 IOT	10.1" 850 nits	PCT 10 points	Onboard LPDDR4X 8GB	M.2 64GB	Micro-HDMI port x 1, SIM card slot x 1 Micro-SD card slot x 1, Audio jack x 1 USB 3.2 Gen 1 x 2 (USB Type-C x 1), USB 2.0 x 2, DC-in jack x 1 RS-232/422/485 COM Port x 1 10/100/1000 Base-T RJ45 x 1	G-sensor E-compass Gyro-sensor Light-sensor	802.11 b/g/n + BT5.1	GPS / Galileo / GLONASS	—	Front: 5MP Rear: 8MP w/ Flash	Yes	Yes	32.7W + 32.7W	DC19V
RTC-1020-RH0004	i5-1145G7E	Windows 10 IOT	10.1" 850 nits	PCT 10 points	Onboard LPDDR4X 8GB	M.2 64GB	Micro-HDMI port x 1, SIM card slot x 1 Micro-SD card slot x 1, Audio jack x 1 USB 3.2 Gen 1 x 2 (USB Type-C x 1), USB 2.0 x 2, DC-in jack x 1 RS-232/422/485 COM Port x 1 10/100/1000 Base-T RJ45 x 1	G-sensor E-compass Gyro-sensor Light-sensor	802.11 b/g/n + BT5.1	GPS / Galileo / GLONASS	—	Front: 5MP Rear: 8MP w/ Flash	—	Yes	32.7W + 32.7W	DC19V

Note: All specifications are subject to change without notice.

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RTC-1200

11.6" Rugged Tablet Features Intel Kaby Lake Up To 3.9 GHz Dual Core Processor with Windows® 10



Features

- 11.6" FHD (1920 x 1080) 500-nit / 850-nit TFT LCD
- Intel® Core™ i 7100U / 7300U / Celeron® 3965U Up to 3.9 GHz
- One DDR4 SODIMM Socket, Up to 16GB
- One M.2 Slot for SSD, 64GB (Default) / 128GB / 256GB
- WiFi 802.11b/g/n, Bluetooth 5.1, LTE (Optional)
- 2MP Front and 5MP Rear Camera
- RS-232/422/485 COM Port + 10/100/1000 Base-T RJ45
- USB 3.2 Gen 1 x 2 (USB Type-C x 1), USB 2.0 x 2
- 2D Barcode Scanner / HF RFID (NFC) Reader (Optional)
- Hot-swappable Battery, 14.4V/ 2270mAh, 32.7W x 2
- MIL-STD-810G, IP65 Compliant, Drop 122cm
- Programmable Function Key: Windows, Volume Up/Down, P1, P2, P3, With LED Illumination
- Docking Connector with GNSS / WWAN Antenna Pass-through Connector
- Windows® 10 IoT



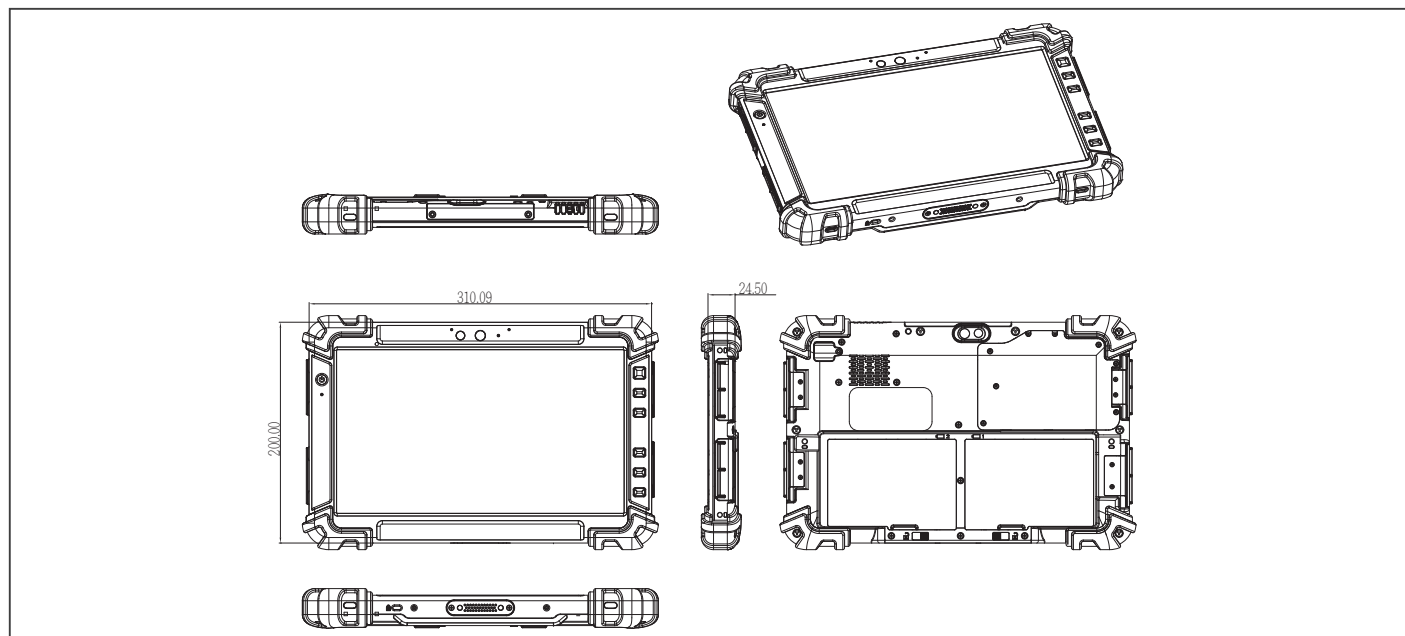
Expansion Slot	Mini-card slot x 1 (For LTE module) Docking connector x 1 GNSS antenna Pass-through connector x 1 WWAN antenna Pass-through connector x 1
Barcode Scanner (Optional)	2D Barcode scanner, OPTICON MDI-4100-USB (Optional)
HF RFID (Optional)	ISO 15693 (R/W), ISO 18092 (R/W), ISO 14443-A (R/W), ISO 14443-B (Only Read UID), Depend on card type
Audio	Speaker x 1
Physical Key	F0 or Windows (Windows Start Key), F1 (Ctrl+Atl+Del & BCR Trigger Button (When BCR is enabled)), F2 (Touch Mode Switch), F3 (Screenprint), Volume Up (Speaker Volume Up), Volume Down (Speaker Volume Down)
Mechanical	
Color	Gray & Black
Dimension (W x H x D)	12.36" x 7.87" x 0.96" (310.4 mm x 200.0 mm x 24.5 mm)
Gross Weight	3.3 lbs (1.5 Kg)
Environmental	
Operating Temperature	-4°F ~ 140°F (-20°C ~ 60°C)
Storage Temperature	-22°F ~ 158°F (-30°C ~ 70°C)
Humidity	5% ~ 90% relative humidity, non-condensing
Environmental Sealing	IP65
Vibration	MIL-STD-810G-514.6 Procedure I Cat.24, Fig 514.6E-1 & 514.6E-2
Drop	MIL-STD-810G Method 516.6 Procedure IV -Height of Drop: 122cm (48 inch; 4ft) -Number of Drop: 26 times, for all surfaces, edges and corners Condition: Based on 2" plywood over concrete
Shock	—
ESD	Air charge: +/- 8KV, Contact charge: +/- 4KV
Certifications and Standards	UL60950-1, CE/LVD: EN60950-1, CE, FCC
Power Supply	
AC / DC Adapter	AC 100 ~ 240 V, 50 ~ 60 Hz, Output: 19V/ 3.42A/ 65W
Battery Life	Li-ion Battery 6-hour battery life based on test configurations
Master Battery	Hot-swappable battery: 14.4V, 2270mAh, 32.7W
Slave Battery	Hot-swappable battery: 14.4V, 2270mAh, 32.7W
Display	
LCD	11.6" TFT-LCD Display
Resolution	1920 x 1080
Maximum Color	16.7M
Dot Size	0.117 (H) x 0.117 (V) mm
Brightness	500 nits (850 nits, Optional)
Viewing Angle	Horizontal: 178°, Vertical: 178° (Typical)
Touch Screen	
Touch Type	Projected Capacitive Multi-Touch Screen (PCT) Gloves / Finger mode Switchable by F2
Light Transmission	Min. 87% (ASTM D1003; Wavelength = 550 nm)

Specifications

System Architecture	
Processor	Intel® Core™ i 7100U / 7300U Dual Core up to 3.9GHz Intel® Celeron® 3965U Dual Core 2.2GHz Processor
Operating System	Windows® 10 IoT Enterprise 64bit (Default)
Memory	DDR4 SO-DIMM Socket x 1, up to 16GB
Storage	M.2 (NGFF) SSD, 64GB (Default) / 128GB / 256GB
Display	11.6" FHD (1920x1080) 500-nit / 850-nit TFT-LCD With Projected Capacitive Multi-Touch Screen
I/O Port	HDMI port x 1, SIM card slot x 1, Micro-SD card slot x 1 Audio jack x 1 (3.5mm), USB 3.2 Gen 1 x 2 (USB Type-C x 1), USB 2.0 x 2, DC-in Jack x 1, RS-232/422/485 COM Port x 1 10/100/1000 Base-T RJ45 x 1
Communication	Wi-Fi 802.11 b/g/n, Bluetooth v5.1
Navigation	GPS, GLONASS ==> Located in I/O board, PER-T407 143NEOM8Q0: u-blox NEO-M8Q-0
WWAN(optional)	LTE via mini-card slot (Optional)
Camera	2MP front camera, 5MP auto-focus rear camera with flash
Sensor	G-sensor, E-compass, Gyro-sensor, Light-sensor

Dimension

Unit: mm



Packing List

- **RTC-1200**
 - **125530065A**
AC-To-DC Power Adaptor, 19V, 65W
- *Power cord must be purchased separately.

Optional Accessories

- **RDS-241V-0000**
Docking Station, W/ Stand
- **RDS-241V-0001**
Docking Station, W/O Stand
- **RBC-1200-000**
4-bay Battery Charger
- **RTC-1200HSP01-000**
Rotating Hand-Strap
- **RTC-1200BLT01-000**
Shoulder Belt
- **RTC-1200BAT01-000**
Battery Pack, 14.4V, 2270mAh, 2 pcs/Box
- **RTC-1200BKT01-000**
Mounting Bracket (VESA/RAM)
- **RTC-1200-ST01-000**
Passive Stylus
- **RTC-1200-ST02-000**
Active Stylus
- **1259X00004**
DC-To-DC Power Adaptor, Flying Wires
- **1255900901**
DC-To-DC Power Adaptor, Cigarette Plug
- **1702031830**
Power Cord for US
- **1702031831**
Power Cord for EU
- **1702031835**
Power Cord for UK
- **1702031810**
Power Cord for Japan

* Small quantity MOQ may apply for optional/customized services.

Ordering Information

Part Number	CPU	OS	LCD Display	Touch Screen	System Memory	Storage	Expansion I/O	Sensor	WiFi/Bluetooth	Navigation	LTE Bands (MHz)	Camera	2D Barcode Scanner	NFC	Battery	Power
RTC-1200-RH1001	Celeron 3965U	Windows 10 IOT	11.6" 850 nits	PCT 10 points	SODIMM DDR4 4GB	M.2 64GB	HDMI port x 1 SIM card slot x 1 Micro-SD card slot x 1 Audio jack x 1 USB 3.0 x 1, USB 2.0 x 2 DC-in jack x 1 RS-232/422/485 COM Port x 1 10/100/1000 Base-T RJ45 x 1	G-sensor E-compass Gyro-sensor Light-sensor	802.11 b/g/n + BT5.1	GPS / GLONASS	—	Front: 2MP Rear: 5MP w/ Flash	—	—	32.7W + 32.7W	DC19V
RTC-1200-RH1002	i3-7100U	Windows 10 IOT	11.6" 850 nits	PCT 10 points	SODIMM DDR4 4GB	M.2 64GB	HDMI port x 1 SIM card slot x 1 Micro-SD card slot x 1 Audio jack x 1 USB 3.0 x 1, USB 2.0 x 2 DC-in jack x 1 RS-232/422/485 COM Port x 1 10/100/1000 Base-T RJ45 x 1	G-sensor E-compass Gyro-sensor Light-sensor	802.11 b/g/n + BT5.1	GPS / GLONASS	—	Front: 2MP Rear: 5MP w/ Flash	—	Yes	32.7W + 32.7W	DC19V
RTC-1200-RH1003	i3-7100U	Windows 10 IOT	11.6" 850 nits	PCT 10 points	SODIMM DDR4 4GB	M.2 64GB	HDMI port x 1 SIM card slot x 1 Micro-SD card slot x 1 Audio jack x 1 USB 3.0 x 1, USB 2.0 x 2 DC-in jack x 1 RS-232/422/485 COM Port x 1 10/100/1000 Base-T RJ45 x 1	G-sensor E-compass Gyro-sensor Light-sensor	802.11 b/g/n + BT5.1	GPS / GLONASS	—	Front: 2MP Rear: 5MP w/ Flash	Yes	Yes	32.7W + 32.7W	DC19V
RTC-1200-RH1004	i5-7300U	Windows 10 IOT	11.6" 850 nits	PCT 10 points	SODIMM DDR4 4GB	M.2 64GB	HDMI port x 1 SIM card slot x 1 Micro-SD card slot x 1 Audio jack x 1 USB 3.0 x 1, USB 2.0 x 2 DC-in jack x 1 RS-232/422/485 COM Port x 1 10/100/1000 Base-T RJ45 x 1	G-sensor E-compass Gyro-sensor Light-sensor	802.11 b/g/n + BT5.1	GPS / GLONASS	—	Front: 2MP Rear: 5MP w/ Flash	—	Yes	32.7W + 32.7W	DC19V

Note: All specifications are subject to change without notice.

www.aaeon.com

RTC-1010RK PRELIMINARY

10.1" Rugged Tablet Features Rockchip RK3399 With Android 10.0



Specifications

System Architecture	
Processor	Rockchip RK3399 Processor (Quad-Core A53 1.6GHz & Dual-Core A72 2.0GHz)
Operating System	Android 10.0 (Will start from Android 8.1 for samples)
Memory	Onboard LPDDR4 2GB (Default) / 4GB
Storage	eMMC 16GB (Default) / 32GB
Display	10.1" WXGA (1280x800) 800-nit / 300-nit TFT LCD With Projected Capacitive Multi-Touch Screen
I/O Port	Micro-HDMI port x 1 SIM card slot x 1 Micro-SD card slot x 1 Audio jack x 1 (3.5mm) USB 3.2 Gen 1 x 2 (USB Type-C x 1), USB 2.0 x 2 DC-in jack x 1 RS-232/422/485 COM Port x 1 10/100/1000 Base-T RJ45 x 1
Communication	Wi-Fi 802.11 b/g/n, Bluetooth v5.0 (EDR + BLE)
Navigation	Up to 3 GNSS, GPS + Galileo (Default), GLONASS, BeiDou (Optional)
WWAN(optional)	LTE via M.2 slot (Optional)
Camera	8MP front camera, MIPI I/F 8MP rear camera with flash, MIPI I/F
Sensor	G-sensor, Gyro-sensor, Light-sensor
Expansion Slot	Inside M.2 slot x 1, M Key (For storage or others) M.2 slot, B Key 3042 (For LTE module) Docking connector: USB 2.0 x 1

Features

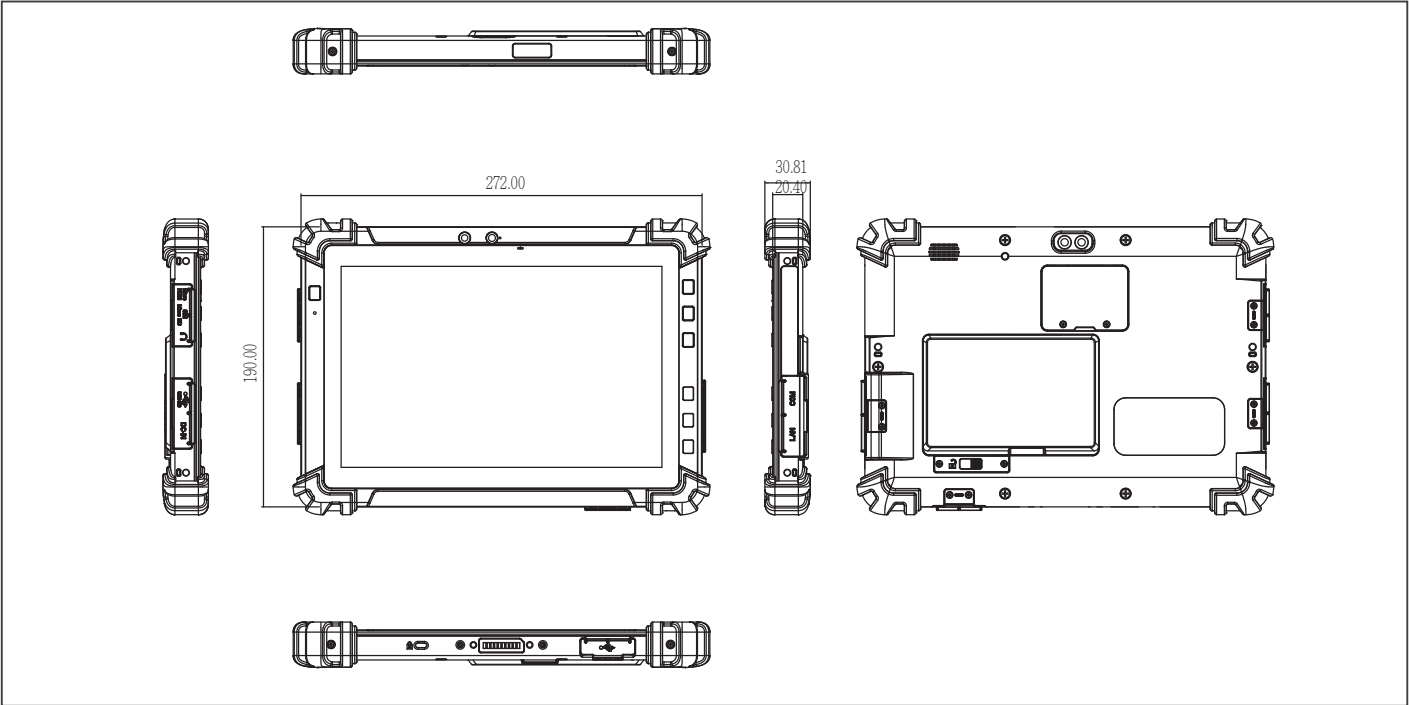
- 10.1" WXGA (1280 x 800) 800-nit / 300-nit TFT LCD
- Rockchip RK3399 Processor
- Onboard LPDDR4 Memory, 2GB (Default) / 4GB
- eMMC 16GB (Default) / 32GB
- WiFi 802.11b/g/n, Bluetooth 5.0, LTE (Optional)
- 8MP Front and 8MP Rear Camera
- RS-232/422/485 COM Port + 10/100/1000 Base-T RJ45
- USB 3.2 Gen 1 x 2 (USB Type-C x 1), USB 2.0 x 2
- 2D Barcode Scanner (Optional)
- HF RFID (NFC) Reader (Optional)
- Up to 3 GNSS, GPS + Galileo (Default), GLONASS, BeiDou (Optional)
- One Hot-swappable Battery + Internal Battery, Up to 44W Battery Capacity
- MIL-STD-810G, IP65 Compliant, Drop 122cm
- Programmable Function Key: F0, F1, F2, F3, Volume Up/Down, With LED Illumination
- Android 10.0



Barcode Scanner (Optional)	2D Barcode scanner, OPTICON MDI-4100-USB (Optional)
HF RFID (Optional)	ISO 15693 (R/W), ISO 18092 (R/W), ISO 14443-A (R/W) ISO 14443-B (Only Read UID), Depend on card type
Audio	Speaker x 1
Physical Key	F0 or Windows (TBD), F1 (BCR Trigger Button (When BCR is enabled)), F2 (Screenprint), F3 (Audio On/Off), Volume Up (Speaker Volume Up), Volume Down (Speaker Volume Down)
Mechanical	
Color	Black & Dark Grey
Dimension (W x H x D)	272.0 x 190.0 x 20.4 mm (10.71" x 7.48" x 0.80")
Gross Weight	2.2 lb (1.0 Kg) based on configurations
Environmental	
Operating Temperature	-20°C ~ 50°C (-4°F ~ 122°F)
Storage Temperature	-30°C ~ 70°C (-22°F ~ 158°F)
Humidity	0% ~ 90% relative humidity, non-condensing
Environmental Sealing	IP65
Vibration	MIL-STD-810G-514.6 Procedure I Cat.24, Fig 514.6E-1 & 514.6E-2 (Unit is non-operating)
Drop	MIL-STD-810G-516.6, Procedure IV Drop height: 122 cm Number of Drop: 26 times, for all surfaces, edges and corners Condition: Based on 2" plywood over concrete
Shock	TBC
ESD	Air charge: +/- 8KV, Contact charge: +/- 4KV
Certifications and Standards	UL62368-1, CE, FCC, IC
Power Supply	
AC / DC Adapter	AC 100 ~ 240 V, 50 ~ 60 Hz, Output: 12V/ 3A/ 36W
Battery Life	Li-ion Battery 8-hour battery life based on test configurations
Master Battery	Hot-swappable battery: 14.4V, 2270mAh, 32.7W
Slave Battery	7.4V, 1530mAh, 11.3W
Display	
LCD	10.1" TFT-LCD Display
Resolution	1280 x 800
Maximum Color	16.7M
Dot Size	0.1692 (H) x 0.1692 (V) mm
Brightness	300 nits (800 nits, Optional)
Viewing Angle	Horizontal: 170°, Vertical: 170° (Typical)
Touch Screen	
Touch Type	Projected Capacitive Multi-Touch Screen (PCT)
Light Transmission	Min. 85%

Dimension

Unit: mm



Packing List

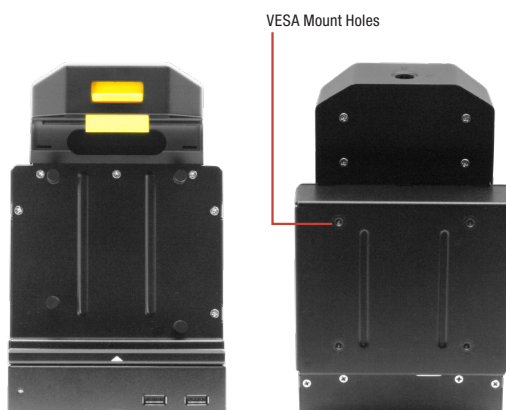
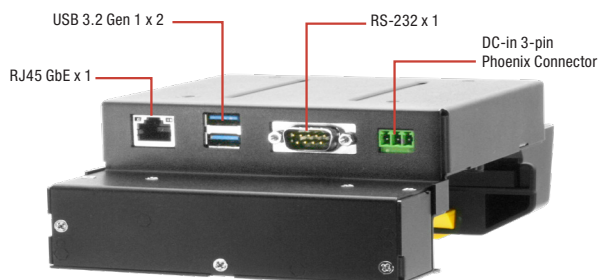
- **RTC-1010RK**
 - **1255300365**
AC-To-DC Power Adaptor, 12V, 36W
 - **Power Cord (By Order)**
- *Power cord must be purchased separately.

Ordering Information

- **TBD**

Optional Accessories

- **RDS-411-000**
Docking Station, W/O Stand
- **RDS-411-001**
Docking Station, W/ Stand
- **RBC-1200-000**
4-bay Battery Charger
- **RTC-1010-HS-000**
Hand Strap
- **RTC-1010-SB-000**
Shoulder Belt, 2 Points
- **RTC-1200BAT01-000**
Battery Pack, 14.4V, 2270mAh , 2 pcs/Box
- **170203J000**
DC Input Cable, 2 Meters, For RDS-411
- **1255900363**
DC-To-DC Power Adaptor, 12V to 36V Input, 12V/3A Output, One End-DC Jack, One End-Two Flying
- **1255900364**
DC-To-DC Power Adaptor, 12V to 36V Input, 12V/3A Output, One End-DC Jack, One End-Cigarette Plug
- **1702031802**
Power Cord for US
- **1702031803**
Power Cord for EU
- **170203180J**
Power Cord for UK
- **170203180E**
Power Cord for Japan



Features

- Apply on RTC-710
- Front-facing I/Os: USB 2.0 x 2
- Downward-facing I/Os for Easy Cable Management: USB 3.2 Gen 1 x 2, RS-232 x 1, RJ45 GbE x 1, DC-in Phoenix Connector x 1
- Wide Voltage Input: 9VDC ~ 36VDC
- Power Adaptor: AC Power Adaptor (Default)
- Anti-theft Lock with Key & VESA Mount Support (75x75)

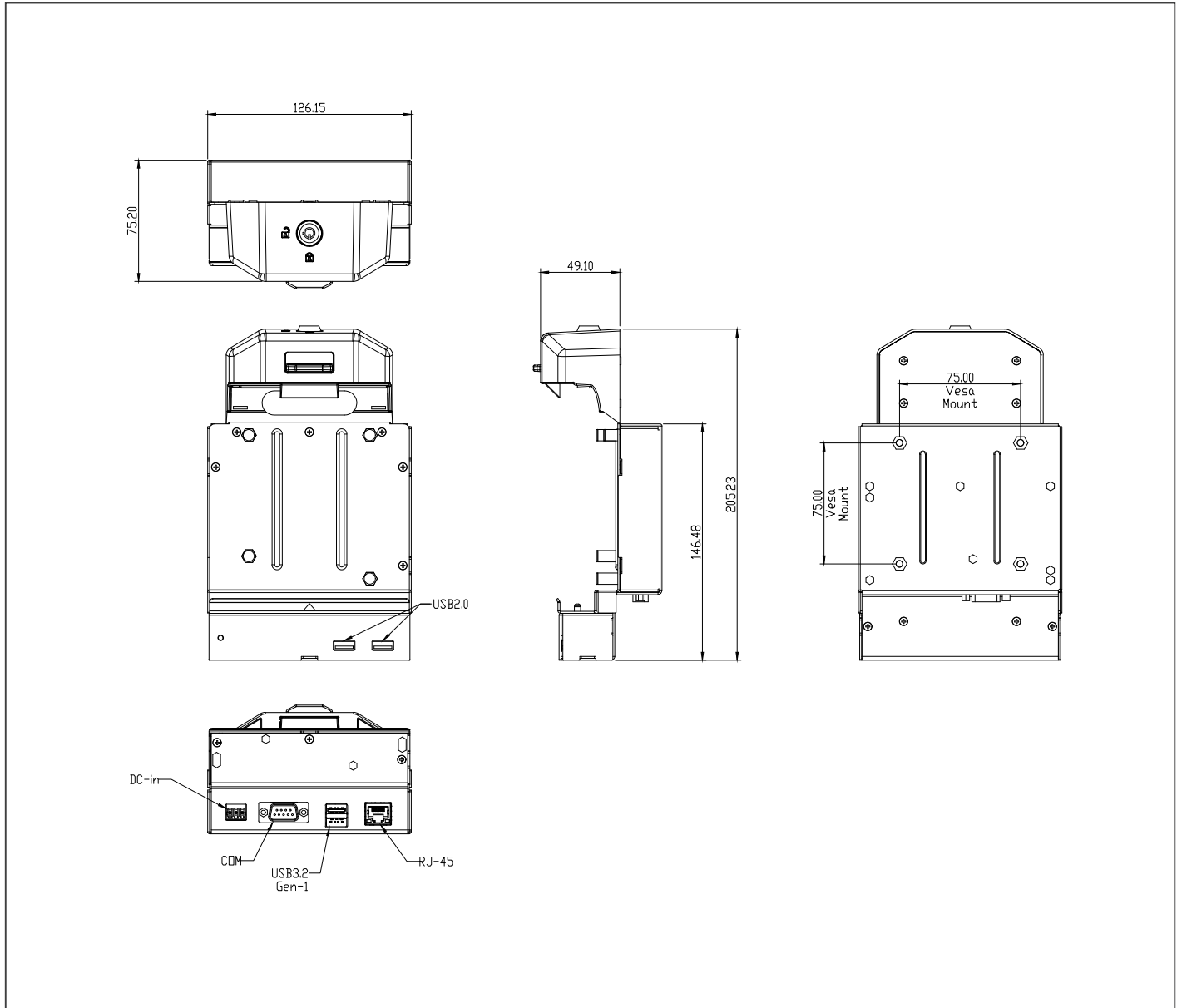


Specifications

System	
I/O	Front-facing I/Os: USB 2.0 x 2 Downward-facing I/Os: USB 3.2 Gen 1 x 2 RS-232 x 1 RJ45 GbE x 1
DC Input	Phoenix connector: DINKLE ECH381H-03P Wide Voltage Input: DC 9V to 36V Mating connector: DINKLE EC381V-03P
LED Indicator	Orange: DC in w/o Tablet Blue: DC in w/ Tablet
Others	Anti-theft lock with key & VESA mount support (75x75)
Mechanical	
Color	Black
Construction	Metal
Dimensions (W x H x D)	8.07" x 4.96" x 2.96" (205 x 126 x 75 mm)
Gross Weight	1.8 lb (820g)
Environmental	
Operating Temperature	-4°F ~ 140°F (-20°C ~ 60°C)
Storage Temperature	-22°F ~ 158°F (-30°C ~ 70°C)
ESD	Air charge: +/- 8KV Contact charge: +/- 4KV
EMC/ Safety	CE / FCC Class A / UL
Power Supply	
AC/DC Adapter	AC 100 ~ 240 V, 50 ~ 60 Hz, Output: 12V/ 3.34A/ 40W DC connector: DINKLE EC381V-03P
DC/DC Adapter	—

Dimension

Unit: mm



Ordering Infomation

- **RDS-0710-000**
Docking Station.USBx4.RS-232.RJ45.DC Connector.9-36V Input
- **RDS-0710-001**
Docking Station.USBx4.RS-232.RJ45.DC Connector.9-36V Input.W/ Stand

Packing List

- **RDS-0710**
- **125530040D**
AC-To-DC Power Adaptor, 12V, 40W
*Power cord must be purchased separately.

Optional Accessories

- **170203J000**
DC Input Cable, 2 Meters, One Side With Mating Connector: DINKLE EC381V-03P, One Side With Flying Wires

RDS-411

Rugged Docking Station for RTC-1010 / RTC-1010M



Features

- Apply on RTC-1010 / RTC-1010M
- Front-facing I/Os: USB 2.0 x 2 with Protection Cover
- Downward-facing I/Os for Easy Cable Management: USB 2.0 x 2, RS-232 x 1 (Two: Optional), RJ45 GbE x 1, DC-in Phoenix Connector x 1
- Wide Voltage Input: 9VDC ~ 36VDC
- Power Adaptor: AC Power Adaptor (Default)
- Anti-theft Lock with Key & VESA Mount Support

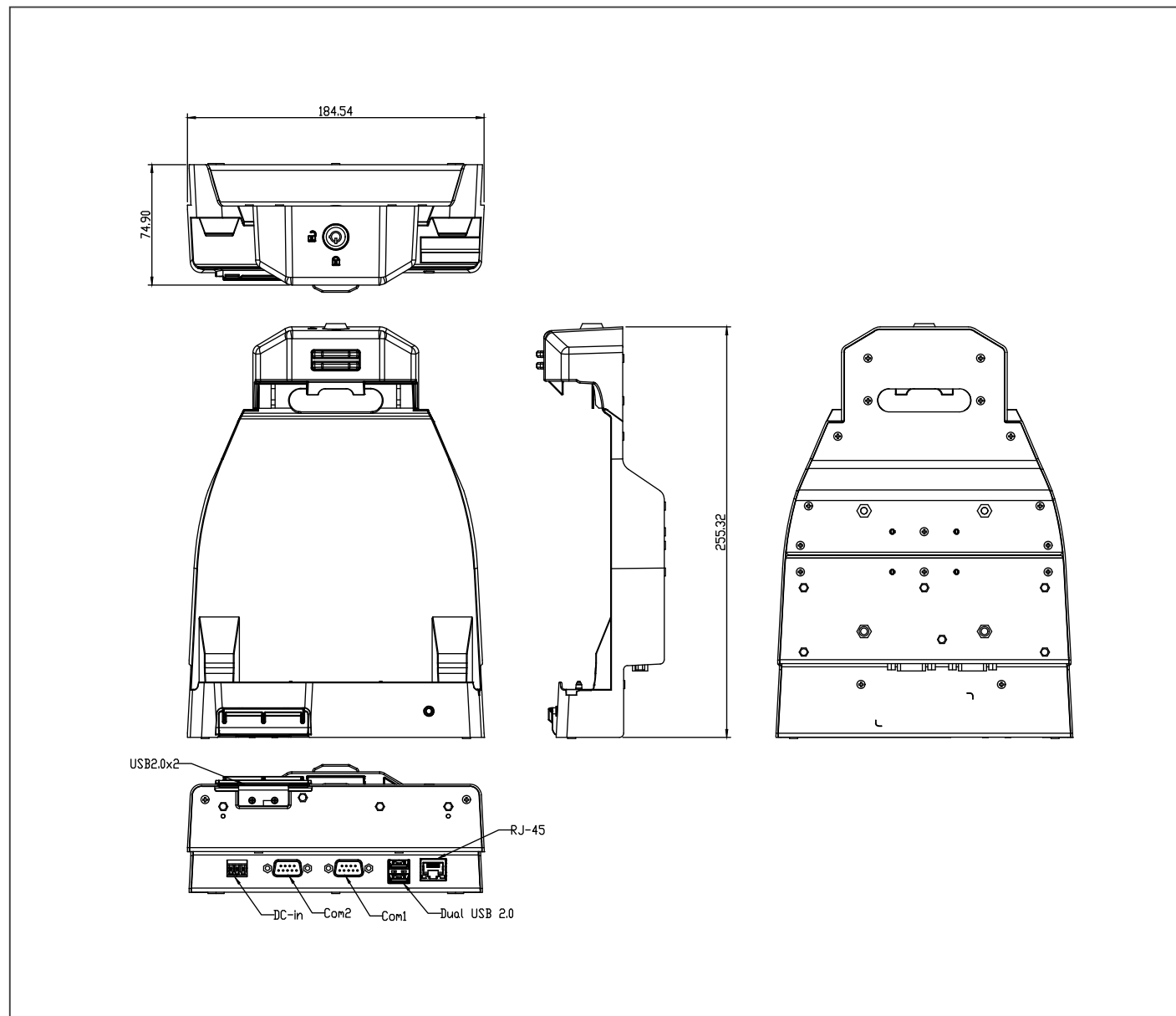


Specifications

System	
I/O	Front-facing I/Os: USB 2.0 x 2 with protection cover Downward-facing I/Os: USB 2.0 x 2 RS-232 x 1 (Two: Optional) RJ45 GbE x 1
DC Input	Phoenix connector: DINKLE ECH381H-03P Wide Voltage Input: DC 9V to 36V Mating connector: DINKLE EC381V-03P
LED Indicator	Orange: DC in w/o Tablet Blue: DC in w/ Tablet
Others	Anti-theft lock with key & VESA mount support
Mechanical	
Color	Black
Construction	PC
Dimensions (W x H x D)	10.08" x 7.28" x 2.96" (256 x 185 x 75 mm)
Gross Weight	6.17 lb (2.8 Kg)
Environmental	
Operating Temperature	32°F ~ 122°F (0°C ~ 50°C)
Storage Temperature	14°F ~ 140°F (-10°C ~ 60°C)
ESD	Air charge: +/- 8KV Contact charge: +/- 4KV
EMC/ Safety	CE / FCC Class B / UL
Power Supply	
AC/DC Adapter	AC 100 ~ 240 V, 50 ~ 60 Hz, Output: 12V/ 3.34A/ 40W DC connector: DINKLE EC381V-03P
DC/DC Adapter	—

Dimension

Unit: mm



Ordering Infomation

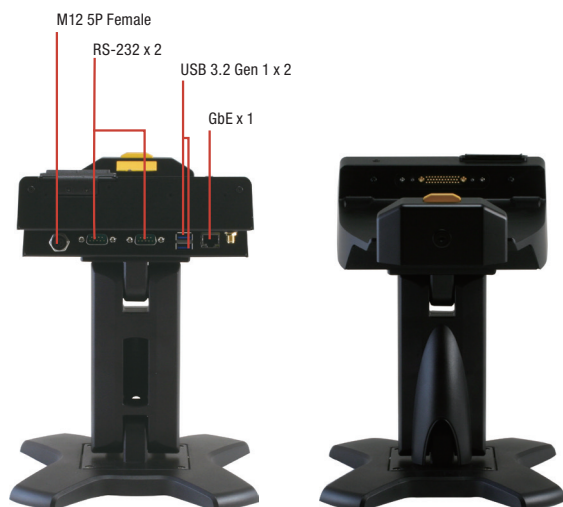
- **RDS-411-000**
Docking Station.USBx4.RS-232.RJ45.DC Connector.9-36V Input
- **RDS-411-001**
Docking Station.USBx4.RS-232.RJ45.DC Connector.9-36V Input.W/ Stand

Packing List

- **RDS-411**
 - **125530040D**
AC-To-DC Power Adaptor, 12V, 40W
- *Power cord must be purchased separately.

Optional Accessories

- **170203J000**
DC Input Cable, 2 Meters, One Side With Mating Connector: DINKLE EC381V-03P, One Side With Flying Wires.



Features

- Apply on RTC-1200
- Front-facing I/O: USB 2.0 x 2 with Protection Cover
- Downward-facing I/Os for Easy Cable Management: USB 3.2 Gen 1 x 2, RS-232 x 2 (One with 5V in Pin 9 & the Other with GPIO x 8), RJ45 GbE x 1, M12 DC-in x 1
- Wide Voltage Input: 9VDC ~ 36VDC via M12-5P Female Connector
- Power Adaptor: AC Power Adaptor (Default)
- Anti-theft lock with Key & VESA Mount Support
- External GPS and WWAN SMA Connectors

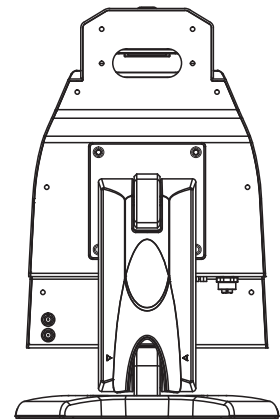
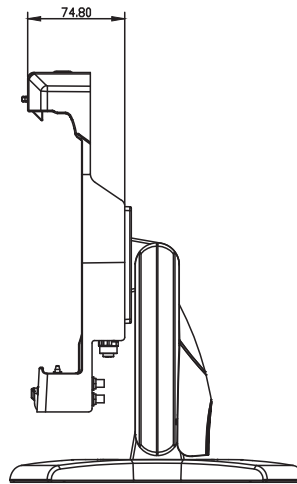
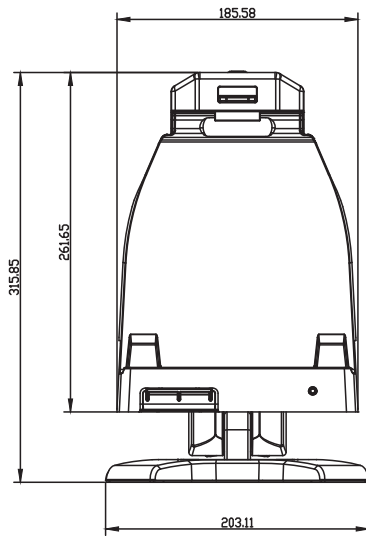


Specifications

System	
I/O	Front-facing I/Os: USB 2.0 x 2 with protection cover Downward-facing I/Os: USB 3.2 Gen 1 x 2 RS-232 x 2 (One with 5V in Pin 9 & the Other with GPIO x 8) RJ45 GbE x 1 M12 DC-in x 1 External GPS and WWAN SMA connectors
DC Input	M12 5P Female (DC 9V to 36V)
LED Indicator	Orange: DC in w/o Tablet Blue: DC in w/ Tablet
Others	Anti-theft lock with key & VESA mount support
Mechanical	
Color	Black
Construction	PC
Dimension (W x H x D)	10.28" x 6.50" x 2.96" (261 x 165 x 75 mm)
Gross Weight	6.44 lb (2.92 Kg)
Environmental	
Operating Temperature	32°F ~ 104°F (0°C ~ 40°C)
Storage Temperature	14°F ~ 122°F (-10°C ~ 50°C)
ESD	Air charge: +/- 8KV Contact charge: +/- 4KV
Certifications and Standards	CE / FCC Class B / UL
Power Supply	
AC Adapter	AC 100 ~ 240 V, 47 ~ 63 Hz Output: 19V/ 4.74A/ 90W
DC Adaptor	—

Dimension

Unit: mm



Ordering Infomation

Part Number	Applied Models	Stand	Expansion I/O
RDS-241V-000	For RTC-1200 Series w/ Stand	Yes	USB 2.0 x 2, USB 3.2 Gen 1 x 2, RS-232 x 2, LAN x 1, DC Connector, GPS and WWAN SMA x 2
RDS-241V-001	For RTC-1200 Series w/o Stand	No	USB 2.0 x 2, USB 3.2 Gen 1 x 2, RS-232 x 2, LAN x 1, DC Connector, GPS and WWAN SMA x 2

Packing List

• RDS-241V

*Power cord must be purchased separately.

Optional Accessories

• 1255300908

AC-To-DC Power Adaptor, 19V, 90W

• 1702031830

Power cord for USA

• 1702031831

Power cord for Europe

RTC-1010-HS-000

Hand Strap for RTC-1010/ RTC-1010M



Specifications

Mechanical	
Color	Black
Dimensions (W x H x D)	232 x 92 x 30 mm

Ordering Infomation

- **RTC-1010-HS-000**
Hand Strap

RTC-1010-SB-000

Shoulder Belt for RTC-1010/ RTC-1010M



Specifications

Mechanical	
Color	Black
Dimensions (W x H x D)	1050 x 65 x 5 mm

Ordering Infomation

- **RTC-1010-SB-000**
Shoulder Belt, 2 Points

RTC-1010-VMP-000

VESA Mount Plate for RTC-1010M



Specifications

Mechanical	
Color	Black
Dimensions (W x H x D)	275.6 x 191.7 x 25 mm

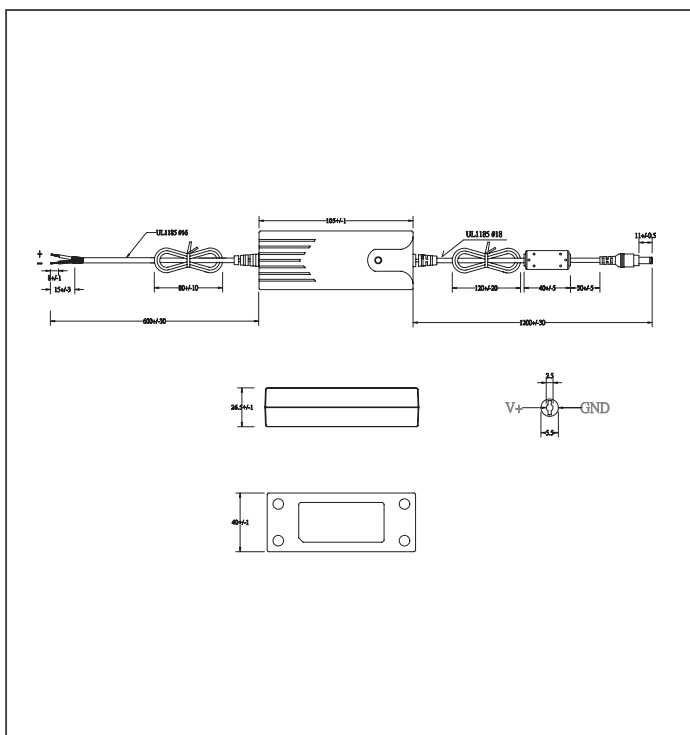
Ordering Information

- **RTC-1010-VMP-000**
VESA Mount Plate

* This item can be applied to RTC-1010 when the bumpers on the device are removed.

1255900363

DC-To-DC Power Adapter, Flying Wires for RTC-1010/ RTC-1010M



Specifications

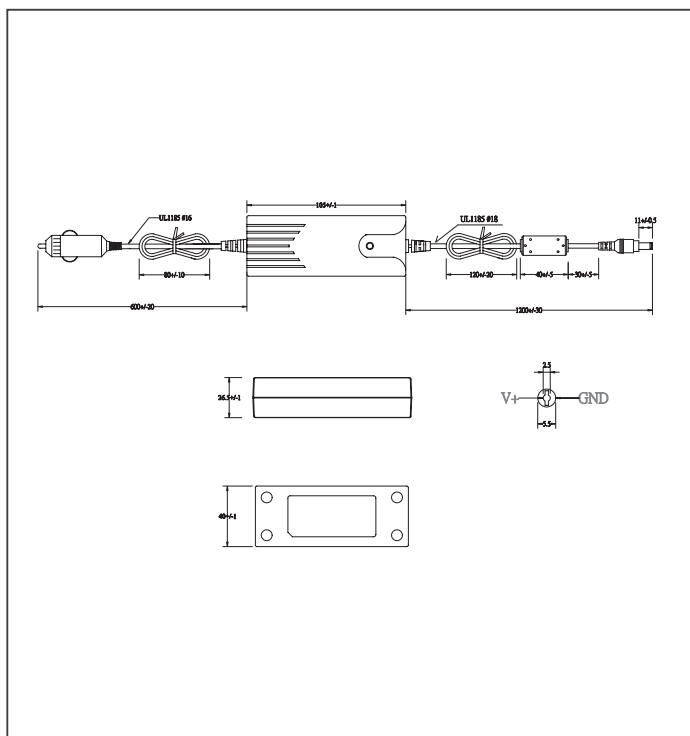
Mechanical	
Color	Black
Dimensions (W x H x D)	Adapter case: 40 x 105 x 26.5 mm Plug side length: 1200 ± 30 mm Flying Wires side length: 600 ± 30 mm Total length: 1905 ± 60 mm

Ordering Information

- **1255900363**
DC-To-DC Power Adapter, 12V to 36V Input, 12V/3A Output, One End-DC Jack, One End-Two Flying Wires

1255900364

DC-To-DC Power Adapter, Cigarette Plug for RTC-1010/ RTC-1010M



Specifications

Mechanical	
Color	Black
Dimensions (W x H x D)	Adapter case: 40 x 105 x 26.5 mm
	Plug side length: 1200 ± 30 mm
	Cigarette Plug side length: 600 ± 50 mm
	Total length: 1905 ± 50 mm

Ordering Infomation

• 1255900364

DC-To-DC Power Adapter, 12V to 36V Input, 12V/3A Output, One End-DC Jack, One End-Cigarette Plug

RTC-1200HSP01-000

Hand Strap for RTC-1200



Specifications

Mechanical	
Color	Black
Dimensions (W x H x D)	260 x 92 x 30 mm

Ordering Infomation

• RTC-1200HSP01-000

Rotating Hand-Strap

RTC-1200BLT01-000

Shoulder Belt for RTC-1200



Specifications

Mechanical	
Color	Black
Dimensions (W x H x D)	1050 x 65 x 5 mm

Ordering Infomation

- **RTC-1200BLT01-000**
Shoulder Belt, 2 Points

RTC-1200BLT02-000

Shoulder Belt for RTC-1200



Specifications

Mechanical	
Color	Black
Dimensions (W x H x D)	450 x 350 x 50 mm

Ordering Infomation

- **RTC-1200BLT02-000**
Shoulder Belt 4 Points

RTC-1200BKT01-000

VESA Mount Bracket for RTC-1200



Specifications

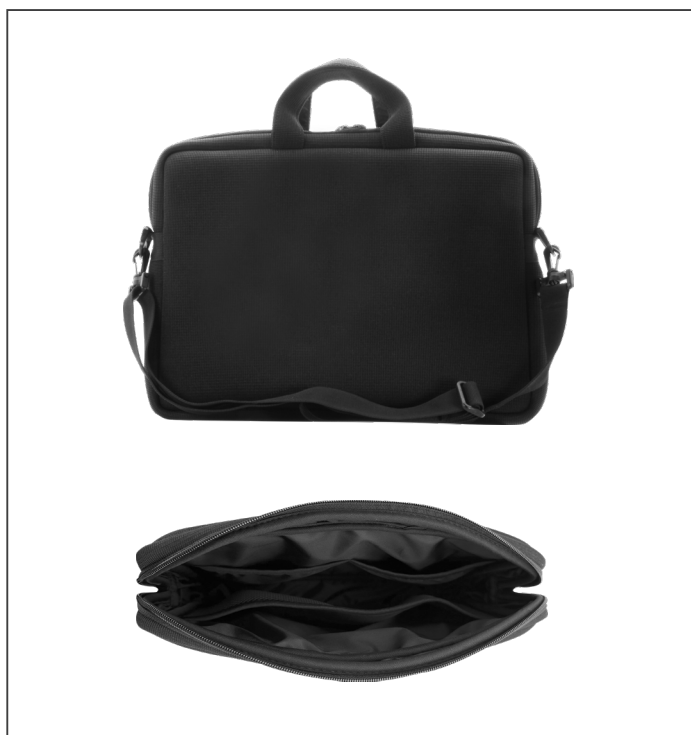
Mechanical	
Color	Black
Dimensions (W x H x D)	180 x 203.3 x 45.4 mm

Ordering Infomation

- **RTC-1200BKT01-000**
Mounting Bracket (VESA/RAM)

RTC-1010-SBG-000

Shoulder Bag for RTC-1010 / RTC-1020 / RTC-1200



Specifications

Mechanical	
Color	Black
Dimensions (W x H x D)	Bag: 330 x 245 x 50 mm Shoulder strap: Length: 710 mm (Min) ~ 1310 mm (Max)

Ordering Infomation

- **RTC-1010-SBG-000**
Shoulder Bag

RBC-1200-000

4-bay Battery Charger for RTC-1010/ RTC-1010M, RTC-1200



Specifications

Mechanical	
Color	Black
Dimensions (W x H x D)	140.5 x 68.4 x 121.87 mm
Power Supply	
AC/DC Adapter	AC power input:100-240V, 50Hz-60Hz, 65W, DC power output: 19V/3.42A

Ordering Information

- **RBC-1200-000**
4-bay Battery Charger

RTC-1200BAT01-000

Battery Pack for RTC-1010/ RTC-1010M, RTC-1200



Specifications

Mechanical	
Color	Black
Dimensions (W x H x D)	71.5 x 110 x 13.3 mm
Capacity	
Capacity	14.4V, 2270mAh, 32.7W

Ordering Information

- **RTC-1200BAT01-000**
Battery Pack, 14.4V, 2270mAh, 2 pcs/Box

* This item can be shipped by air based on dangerous goods shipment with extra shipping charge.

02

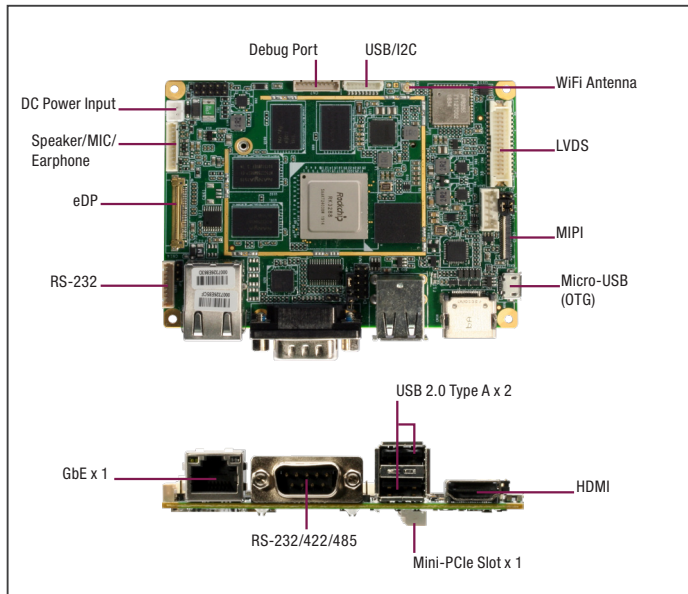
02

RISC Boards



RICO-3288

Pico-ITX Fanless Board with Rockchip ARM Cortex™-A17 Quad-core Processor



Features

- Rockchip RK3288
- Onboard DDR3L 2GB/4GB (Optional)
- Onboard eMMC 16GB and Micro-SD Card Slot
- HDMI (1.4), eDP, LVDS, MIPI
- WiFi 802.11 a/b/g/n/ac, BT V4.2, GPS (Optional), NFC (Optional)
- GbE: RJ45 x 1
- USB 2.0: Micro-USB OTG x 1, Type A x 2, Pin Header x 1
- RS-232/422/485 x 1, RS-232 x 1
- 8-bit GPIO, I2C, mPCIe Slot x 1
- +12V DC Input
- OS Support: Android 9.0 / Debian
- Small Board Size: 100mm x 72mm (PICO-ITX)



Specifications

System	
Form Factor	Pico-ITX (100mm x 72mm)
CPU	Rockchip RK3288 ARM Cortex™-A17 Quad-core 1.6 GHz
GPU	Mali-T764
Graphics	Video Decode: MPEG-1, MPEG-2, MPEG-4, H.263, H.264, AVS, VC-1, VP8, MVC Video Encode: H.264 (BP@level4.0, MP@level4.0, HP@level4.0), MVC and VP8
Memory Capacity	Onboard DDR3L 2GB/4GB (Optional)
Storage/SSD	16GB eMMC and Micro-SD card
Operating System	Android 9.0 / Debian
Kernel	Kernel 4.4
Watchdog Timer	Integrated
Power Requirement	+12V DC input, Optional 7.4V battery
Power Consumption (Typical)	0.6A@12V, full load, Quad-core CPU
Dimension	3.94" x 2.84" (100mm x 72mm)
Gross Weight	0.44 lb (0.2 Kg)
Operating Temperature	32°F ~ 140°F (0°C ~ 60°C) (-20°C ~ 60°C: Optional)
Storage Temperature	-40°F ~ 176°F (-40°C ~ 80°C)
Operating Humidity	0% ~ 90% relative humidity, non-condensing
MTBF (Hours)	80,000
Certification	CE/FCC
Display	
HDMI	HDMI (1.4) up to 4K x 2K @60Hz
eDP	Up to 2560 x 1440 @60Hz
LVDS	Support 18/24-bit up to 1920 x 1080 @60Hz
MIPI	Up to 2560 x 1440 @60Hz
RF Function	
WiFi	802.11 a/b/g/n/ac
BT	Bluetooth V4.2 + EDR
I/O	
Ethernet	GbE x 1
USB Port	Micro-USB OTG x 1 USB 2.0 Type A x 2 USB 2.0 Pin header x 1 (Integrated)
Serial Port	RS-232/422/485 x 1 RS-232 Pin header x 1 Debug port pin header x 1
Audio	2.5W (by 4Ω) Speaker/ Microphone/ Earphone
GPIO	8-bit (4-in, 4-out)
Expansion Slot	Full-size mini-PCle slot x 1 (For 3G/4G card)
SIM Slot	Nano-SIM
SD Socket	Support Micro-SD card
Camera	—

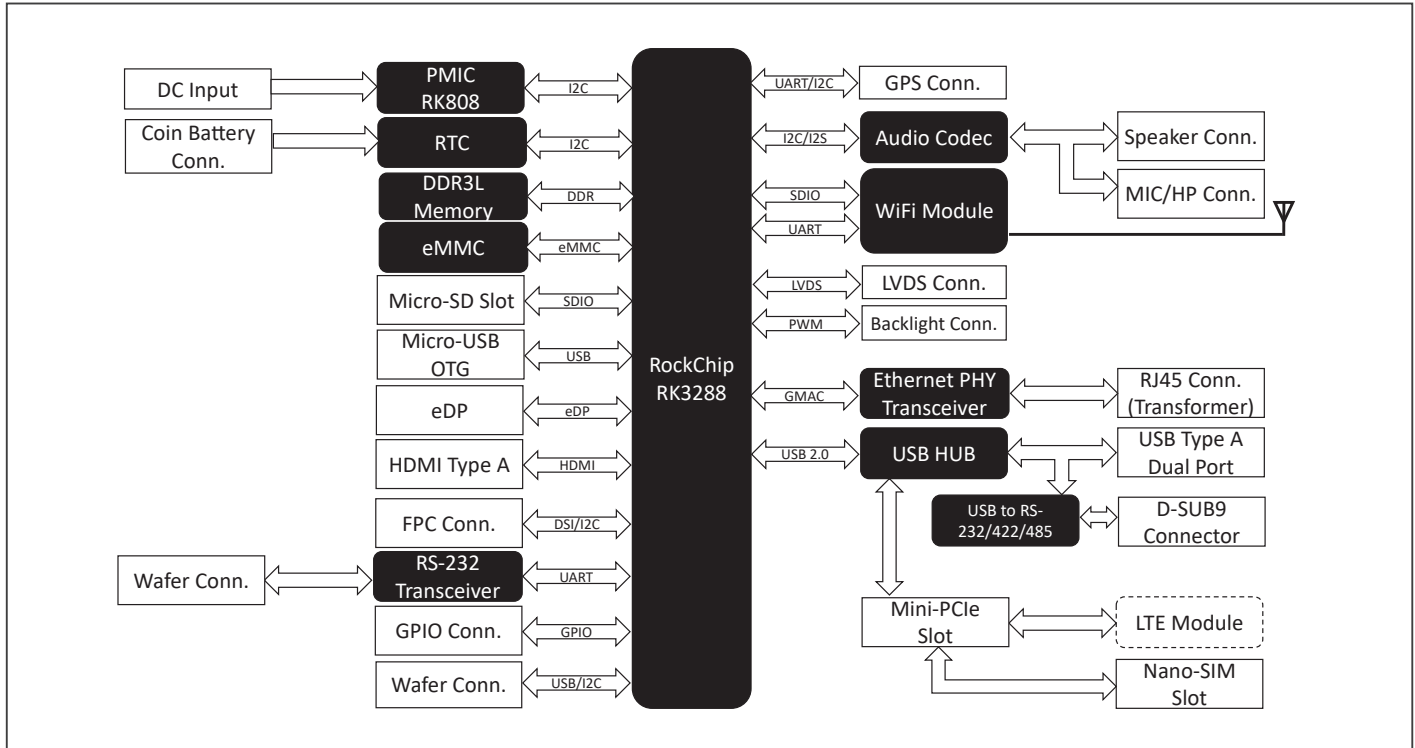
Packing List

- RICO-3288
- MB Power Cable
- RTC Battery

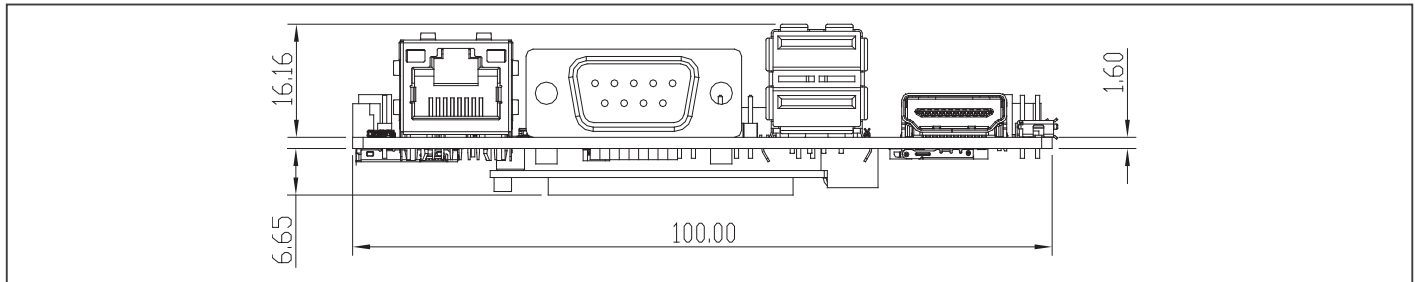
Optional Accessories

Part Number	Description	Qty.
1701090150	COM Cable, Length 15cm	1
125530060Y	12V/60W Power Adapter	1
9697T41704-S	NFC Board	1
9697T47700-D	GPS & Battery Charger Board	1

Block Diagram Unit: mm



Dimension Unit: mm

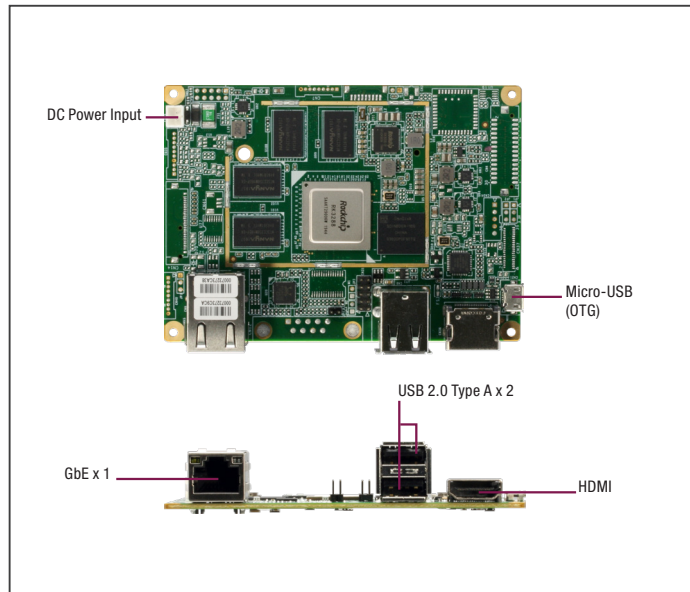


Ordering Information

Part Number	CPU	RAM	Storage	LAN	RS-232	USB	Display	WiFi & BT	3G/LTE Slot
RICO-3288-A11-0001	ARM Cortex-A17 1.6GHz	2GB DDR3L	16GB eMMC	GbE x 1	1 (RS-232) 1 (RS-232/422/485)	4	1 (HDMI) 1 (eDP) 1 (LVDS) 1 (MIPI)	802.11 a/b/g/n/ac BT 4.2 + EDR	1 (mPCIe Slot)
RICO-3288-A11-0002 (MOQ: 50)	ARM Cortex-A17 1.6GHz	4GB DDR3L	16GB eMMC	GbE x 1	1 (RS-232) 1 (RS-232/422/485)	4	1 (HDMI) 1 (eDP) 1 (LVDS) 1 (MIPI)	802.11 a/b/g/n/ac BT 4.2 + EDR	1 (mPCIe Slot)
RICO-3288W1-A11-0001 (-20°C~60°C)	ARM Cortex-A17 1.6GHz	2 GB DDR3L	16GB eMMC	GbE x 1	1 (RS-232) 1 (RS-232/422/485)	4	1 (HDMI) 1 (eDP) 1 (LVDS) 1 (MIPI)	802.11 a/b/g/n/ac BT 4.2 + EDR	1 (mPCIe Slot)

RICO-3288MINI

Pico-ITX Fanless Board with Rockchip ARM Cortex™-A17 Quad-core Processor



Features

- Rockchip RK3288
- Onboard DDR3L 2GB
- Onboard eMMC 16GB
- HDMI (1.4): Up to 4K x 2K @ 60Hz
- GbE: RJ45 x 1
- USB 2.0: Micro-USB OTG x 1, Type A x 2
- 8-bit GPIO
- +12V DC Input
- OS Support: Android 9.0 / Debian
- Small Board Size: 100mm x 72mm (PICO-ITX)



Specifications

System	
Form Factor	Pico-ITX (100mm x 72mm)
CPU	Rockchip RK3288 ARM Cortex™-A17 Quad-core 1.6 GHz
GPU	Mali-T764
Graphics	Video Decode: MPEG-1, MPEG-2, MPEG-4, H.263, H.264, AVS, VC-1, VP8, MVC Video Encode: H.264 (BP@level4.0, MP@level4.0, HP@level4.0), MVC and VP8
Memory Capacity	Onboard DDR3L 2GB
Storage/SSD	16GB eMMC
Operating System	Android 9.0 / Debian
Kernel	Kernal 4.4
Watchdog Timer	Integrated
Power Requirement	+12V DC input
Power Consumption (Typical)	0.6A@12V, full load, Quad-core CPU
Dimension	3.94" x 2.84" (100mm x 72mm)
Gross Weight	0.22 lb (0.1 Kg)
Operating Temperature	32°F ~ 140°F (0°C ~ 60°C)
Storage Temperature	-40°F ~ 176°F (-40°C ~ 80°C)
Operating Humidity	0% ~ 90% relative humidity, non-condensing
MTBF (Hours)	80,000
Certification	CE/FCC
Display	
HDMI	HDMI (1.4) up to 4K x 2K @60Hz
eDP	—
LVDS	—
MIPI	—
RF Function	
WiFi	—
BT	—
I/O	
Ethernet	GbE x 1
USB Port	Micro-USB OTG x 1 USB 2.0 Type A x 2
Serial Port	—
Audio	—
GPIO	8-bit (4-in, 4-out)
Expansion Slot	—
SIM Slot	—
SD Socket	—
Camera	—

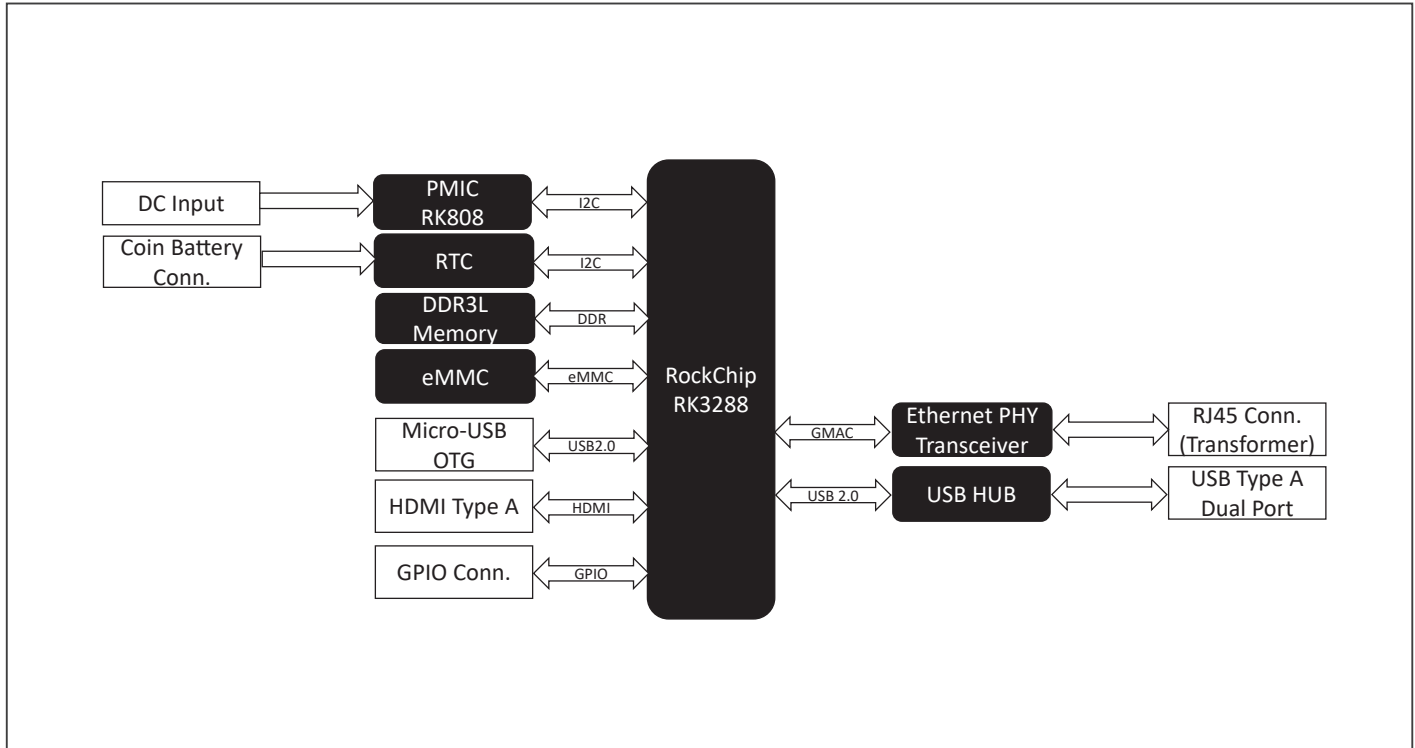
Packing List

- RICO-3288MINI
- MB Power Cable
- RTC Battery

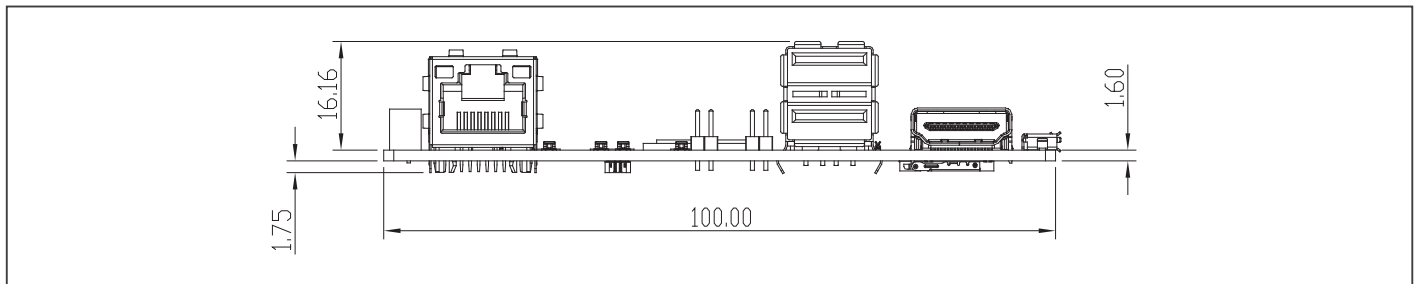
Optional Accessories

Part Number	Description	Qty.
125530060Y	12V/60W Power Adapter	1

Block Diagram Unit: mm



Dimension Unit: mm

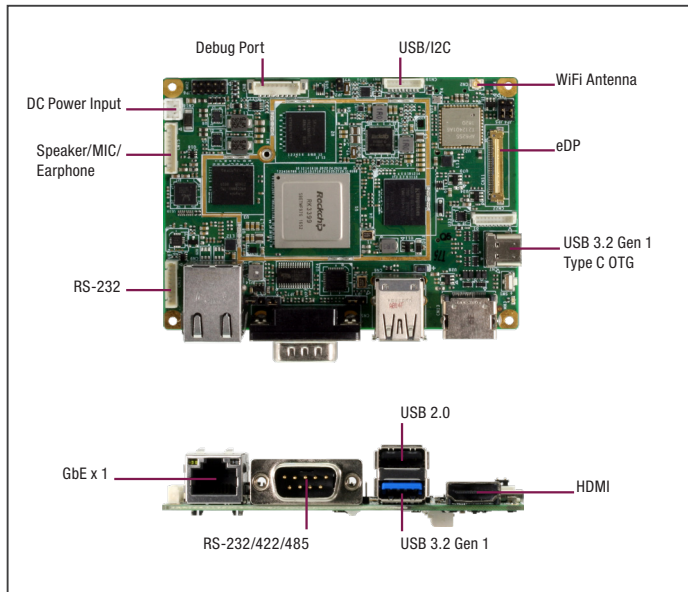


Ordering Information

Part Number	CPU	RAM	Storage	LAN	RS-232/422/485	USB	Display	WiFi & BT	3G/LTE Slot
RICO-3288MINI-A11-0001	ARM Cortex-A17 1.6GHz	2GB DDR3L	16GB eMMC	GbE x 1	—	3	1 (HDMI)	—	—

RICO-3399

Pico-ITX Fanless Board with Rockchip ARM Cortex-A72 Dual-core and Cortex-A53 Quad-core Processor



Features

- Rockchip RK3399
- Onboard LPDDR3 2GB/4GB (Optional)
- Onboard eMMC 16GB and Micro-SD Card Slot
- HDMI (2.0), eDP
- WiFi 802.11 a/b/g/n/ac, BT V4.2, GPS (Optional), NFC (Optional)
- GbE: RJ45 x 1
- USB 3.2 Gen 1: OTG x 1, Type A x 1
- USB 2.0: Type A x 1, Pin Header x 1
- RS-232/422/485 x 1, RS-232 x 1
- 8-bit GPIO, I2C, mPCIe Slot x 1
- +12V DC Input
- OS Support: Android 8.1 / Debian
- Small Board Size: 100mm x 72mm (PICO-ITX)



Specifications

System	
Form Factor	Pico-ITX
CPU	Rockchip RK3399 Cortex™-A72 Dual-core 1.8GHz and Cortex™-A53 Quad-core 1.4GHz
GPU	Mali-T864
Graphics	Video Decode: MPEG-1, MPEG-2, MPEG-4, H.263, H.264, H.265, VC-1, VP8, VP9, MVC Video Encode: H.264 UP to HP@level4.1, MVC and VP8
Memory Capacity	Onboard LPDDR3 2GB/4GB (Optional)
Storage/SSD	16GB eMMC and Micro-SD card
Operating System	Android 8.1 / Debian
Kernel	Kernel 4.4
Watchdog Timer	Integrated
Power Requirement	+12V DC input
Power Consumption (Typical)	0.6A@12V, full load, Hexa-core CPU
Dimension	3.94" x 2.84" (100 mm x 72 mm)
Gross Weight	0.44 lb (0.2 Kg)
Operating Temperature	32°F ~ 140°F (0°C ~ 60°C)
Storage Temperature	-40°F ~ 176°F (-40°C ~ 80°C)
Operating Humidity	0% ~ 90% relative humidity, non-condensing
MTBF (Hours)	80,000
Certification	CE/FCC
Display	
HDMI	HDMI (2.0) up to 4K x 2K @60Hz
eDP	Up to 4K x 2K @60Hz
LVDS	—
MIPI	—
RF Function	
WiFi	802.11 a/b/g/n/ac
BT	Bluetooth V4.2 + EDR

I/O	
Ethernet	GbE x 1
USB Port	USB 3.2 Gen 1 Type C OTG x 1 USB 3.2 Gen 1 (Bottom)/USB 2.0 (Top) dual port x 1 USB 2.0 Pin Header x 1 (Integrated)
Serial Port	RS-232/422/485 x 1 RS-232 Pin header x 1 Debug port pin header x 1
Audio	2.5W (by 4Ω) Speaker/ Microphone/ Earphone
GPIO	8-bit (4-in, 4-out)
Expansion Slot	Full-size mini-PCIe slot x 1 (For 3G/4G card)
SIM Slot	Nano-SIM
SD Socket	Support Micro-SD card
Camera	—

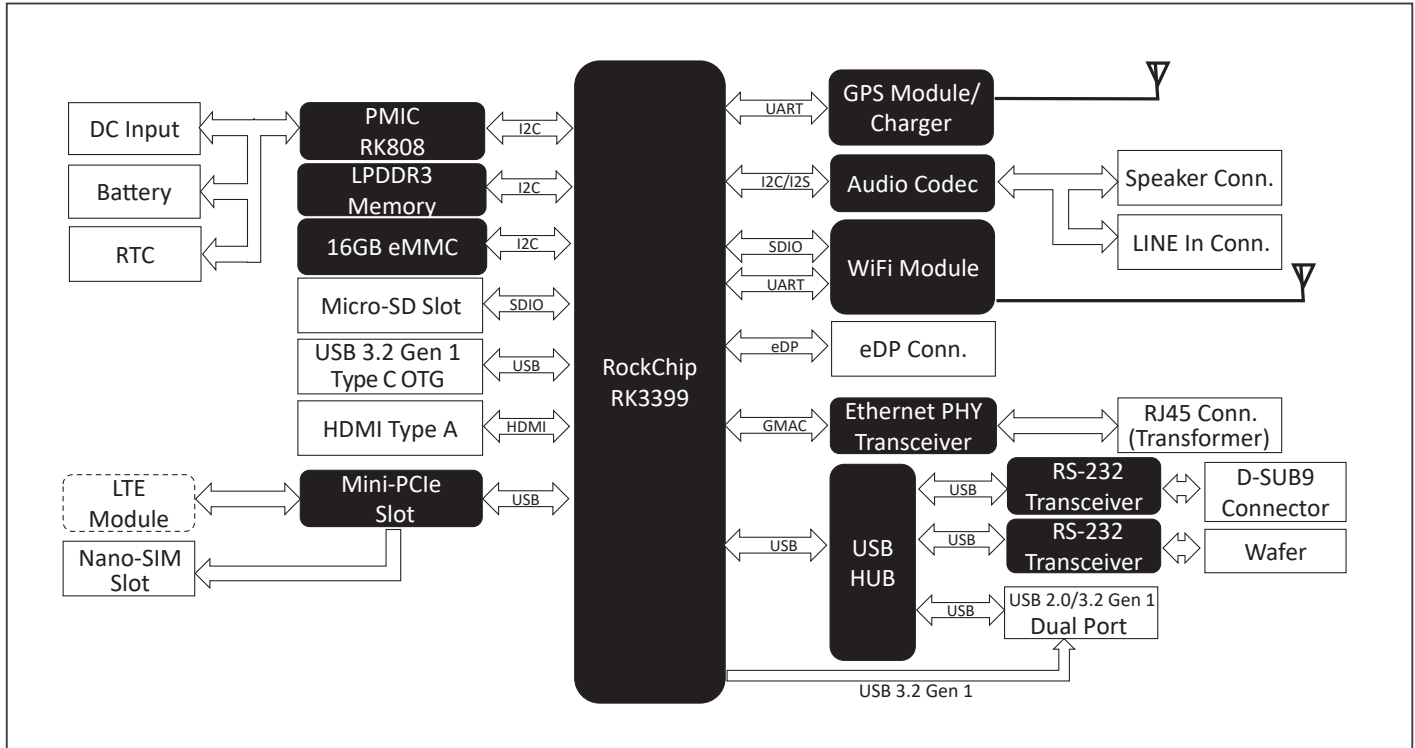
Packing List

- RICO-3399
- MB Power Cable
- RTC Battery

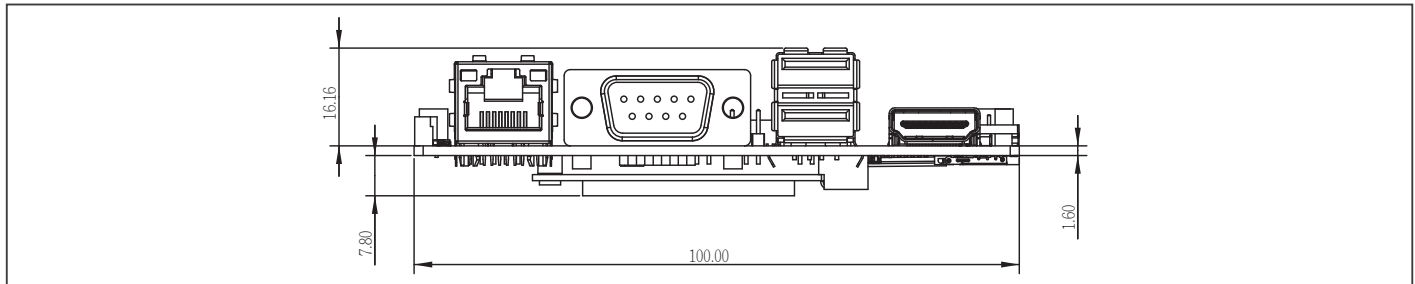
Optional Accessories

Part Number	Description	Qty.
1701090150	COM Cable, Length 15cm	1
125530060Y	12V 60W Power Adapter	1
9697T41703-S	NFC Board	1
9697T47700-D	GPS & Battery Charger Board	1

Block Diagram Unit: mm



Dimension Unit: mm

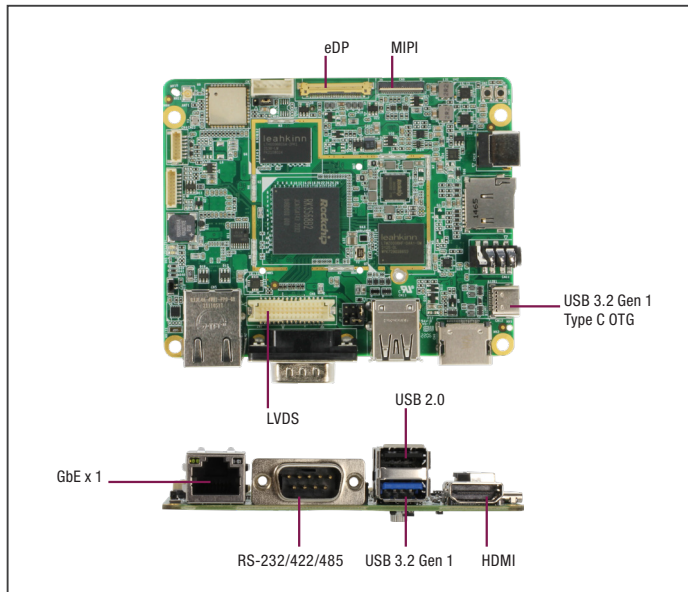


Ordering Information

Part Number	CPU	RAM	Storage	LAN	RS-232	USB	Display	WiFi & BT	3G/LTE Slot
RICO-3399-A10-0001	ARM Dual Cortex-A72 + Quad Cortex-A53	2GB LPDDR3	16GB eMMC	GbE x 1	1 (RS-232) 1 (RS-232/422/485)	4	1 (HDMI) 1 (eDP)	802.11 a/b/g/n/ac BT 4.2 + EDR	1 (mPCle Slot)
RICO-3399-A10-0002	ARM Dual Cortex-A72 + Quad Cortex-A53	2GB LPDDR3	16GB eMMC	GbE x 1	1 (RS-232) 1 (RS-232/422/485)	4	1 (HDMI)	—	—
RICO-3399-A10-0003 (MOQ: 50)	ARM Dual Cortex-A72 + Quad Cortex-A53	4GB LPDDR3	16GB eMMC	GbE x 1	1 (RS-232) 1 (RS-232/422/485)	4	1 (HDMI) 1 (eDP)	802.11 a/b/g/n/ac BT 4.2 + EDR	1 (mPCle Slot)

RICO-3568

Pico-ITX Fanless Board with Rockchip ARM Cortex™-A55 Quad-core Processor



Features

- Rockchip RK3568
- NPU: 0.8 TOPS
- Onboard LPDDR4 2GB/4GB (Optional)
- Onboard eMMC 16GB and Micro-SD Card Slot
- HDMI 2.0, eDP 1.3, LVDS, MIPI
- WiFi 802.11 a/b/g/n/ac, BT V5.0
- GbE: RJ45 x 2 (One located in Daughter board)
- USB 3.2 Gen 1: Type C OTG x 1, Type A x 1
- USB 2.0: Type A x 1, Pin Header x 1
- RS-232/422/485 x 1, RS-232 x 1
- 8-bit GPIO, I2C, mPCIe Slot x 1 (PCIe 3.0 x 1 or mSATA)
- +12V DC Input
- 9-36 V Input, PoE, CAN Bus x 2, 40-pin Raspberry Pi Connector, Battery Charger via Daughter board
- OS Support: Android 12 / Debian
- Small Board Size: 100mm x 80mm

Specifications

System	
Form Factor	Pico-ITX Plus (100mm x 80mm)
CPU	Rockchip RK3568 ARM Cortex™-A55 Quad-core NPU: 0.8 TOPS
GPU	Mali-G52
Graphics	Video Encode: 1080P@60fps H.264/H.265 Video Decode: 4K@60fps H.264/H.265/AV1 4KP60 AVS2/VP9 1080P MPEG1/VP8
Memory Capacity	Onboard LPDDR4 2GB/4GB (Optional)
Storage/SSD	16GB eMMC and Micro-SD card Full-size mini-PCIe slot x 1 (PCIe 3.0 x 1 or mSATA)
Operating System	Android 12 Debian
Kernel	TBD
Watchdog Timer	Integrated
Power Requirement	+12V DC input SW1: Power ON/OFF SW2: Reset
Power Consumption (Typical)	TBD
Dimension	3.94" x 3.15" (100mm x 80mm)
Gross Weight	0.44 lb (0.2 Kg)
Operating Temperature	-4°F ~ 158°F (-20°C ~ 70°C)
Storage Temperature	-40°F ~ 176°F (-40°C ~ 80°C)
Operating Humidity	0% ~ 90% relative humidity, non-condensing
MTBF (Hours)	TBD
Certification	CE/FCC
Display	
HDMI	HDMI (2.0) up to 4K x 2K @ 60Hz
eDP	eDP (1.3) up to 2560 x 1600 @ 60Hz
LVDS	Support 18/24-bit up to 1280 x 800 @ 60Hz JP2, 3.3V/5V: LVDS Power Selection JP3, 5V/12V: Backlight Power Selection
MIPI	Up to 2048 x 1536 @ 60Hz for Dual-MIPI mode
RF Function	
WiFi	802.11 a/b/g/n/ac, on board
BT	Bluetooth V5.0 + EDR



I/O	
Ethernet	GbE x 2 One RJ45 located in RICO-3568 One RJ45 located in Daughter Board
USB Port	USB 3.2 Gen 1 Type C OTG x 1 USB 3.2 Gen 1 (Bottom) / USB 2.0 (Top) Dual Port x 1 USB 2.0 Pin header x 1 (Integrated USB, I2C x 1, 5V)
Serial Port	RS-232/422/485 x 1 RS-232 Pin header x 1 Debug port pin header x 1 JPxx: UART (Tx/Rx only), I2C, GPIO, Others
Audio	Microphone/ Earphone
GPIO	8-bit (4-in, 4-out) Pin header x 1
Expansion Slot	Full-size mini-PCIe slot x 1 (PCIe 3.0 x 1 or mSATA) Connect to Daughter board: FPC connector x 2
SIM Slot	Nano-SIM
SD Socket	Support Micro-SD card
Camera	N/A

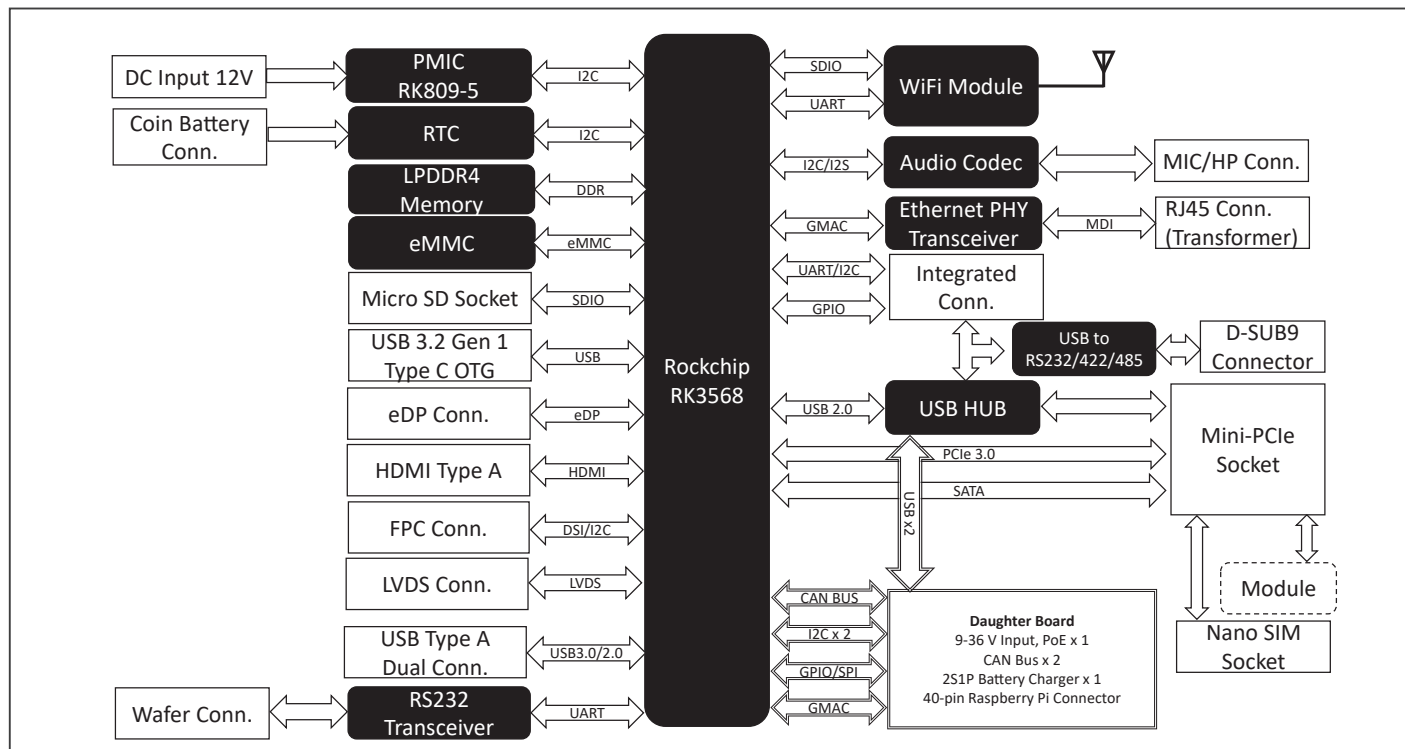
Packing List

- RICO-3568
- MB Power Cable
- RTC Battery

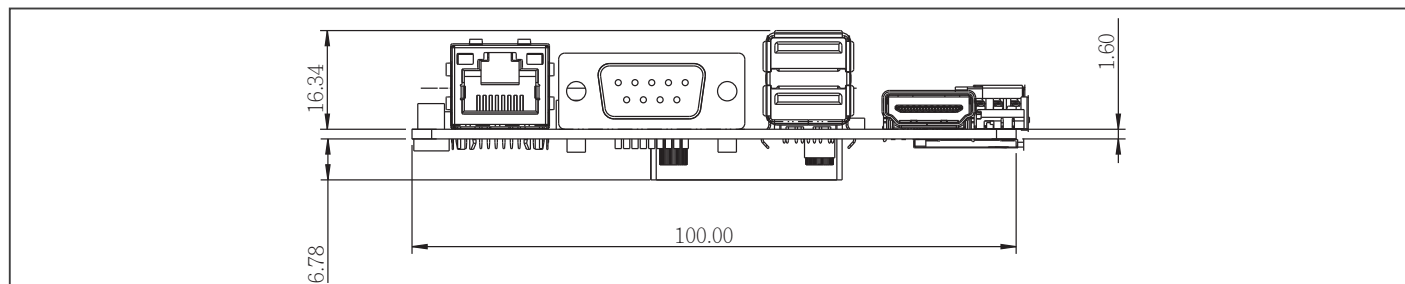
Optional Accessories

Part Number	Description	Qty.
1701090150	COM Cable, Length 15 cm	1
125530060Y	12V/60W Power Adaptor	1

Block Diagram Unit: mm



Dimension Unit: mm

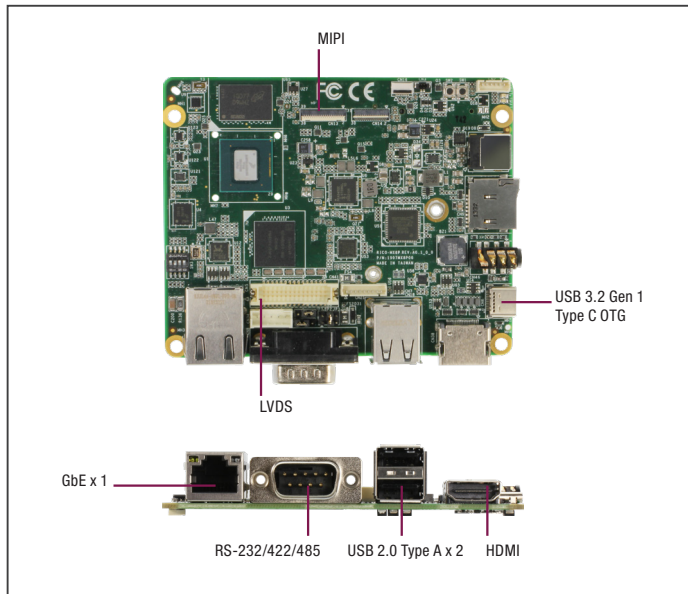


Ordering Information

- RICO-3568-A10-0001
- RICO-3568-A10-0002

RICO-MX8P

Pico-ITX Fanless Board with NXP i.MX 8M Plus



Specifications

System	
Form Factor	Pico-ITX Plus (100mm x 80mm)
CPU	NXP i.MX 8M Plus Quad Cortex™-A53 1.8GHz Cortex™-M7 800MHz processor for low-power processing NPU: 2.3 TOPS (Optional)
GPU	GC7000UltraLite: 3D GPU (2 shaders) OpenGL ES 3.1, Vulkan, OpenCL 1.2 GC520L: 2D GPU
Graphics	Video Processing Unit (VPU): • 1080p60 H.265, VP9 decoder • 1080p60 H.264, VP8 decoder • 1080p60 H.265, H.264 encoder
Memory Capacity	Onboard LPDDR4 2GB RAM/4GB (Optional)
Storage/SSD	16GB eMMC and Micro-SD card
Operating System	Debian 10 (Default) Yocto (TBD)
Kernel	TBD
Watchdog Timer	Integrated
Power Requirement	+12V DC input
Power Consumption (Typical)	TBD
Dimension	3.94" x 3.15" (100mm x 80mm)
Gross Weight	0.44 lb (0.2 Kg)
Operating Temperature	-4°F ~ 158°F (-20°C ~ 70°C)
Storage Temperature	-40°F ~ 176°F (-40°C ~ 80°C)
Operating Humidity	0% ~ 90% relative humidity, non-condensing
MTBF (Hours)	TBD
Certification	CE/FCC
Display	
HDMI	HDMI Port Type A (2.0)
eDP	N/A
LVDS	4-lane or 8-lane LVDS interface
MIPI	4-lane MIPI DSI interface
RF Function	
WiFi	Support via M.2 WiFi/BT module (Optional) (E Key) (1-lane PCIe 3.0 I/F)
BT	Support via M.2 WiFi/BT module (Optional) (E Key) (1-lane PCIe 3.0 I/F)
I/O	
Ethernet	GbE x 2 One RJ45 located in RICO-MX8P One RJ45 located in Daughter Board
USB Port	USB 3.2 Gen 1 Type C OTG x 1 USB 2.0 Type A x 2

Features

- NXP i.MX 8M Plus
- Onboard LPDDR4 2GB/4GB (Optional)
- Onboard eMMC 16GB and Micro-SD Card Slot
- HDMI (2.0), LVDS, MIPI
- WiFi & BT via M.2 WiFi/BT Module (Optional)
- GbE: RJ45 x 2 (One located in Daughter Board)
- USB 3.2 Gen 1: Type C OTG x 1
- USB 2.0: Type A x 2
- RS-232/422/485 x 1, RS-232 x 1, Debug Port x 1
- M.2 E-Key Slot x 1, mPCIe Slot x 1
- +12V DC Input
- 9-36 V Input, PoE, CAN Bus x 2, 40-pin Raspberry Pi Connector, Battery Charger via Daughter board
- OS Support: Debian 10 (Default) / Yocto (TBD)
- Small Board Size: 100mm x 80mm



Serial Port	RS-232/422/485 x 1 RS-232 Pin header x 1 Debug port x 1 UART (Tx/Rx only) x 2
Audio	Audio Line Out Jack x 1
GPIO	8-bit (4-in, 4-out) Pin header x 1
Expansion Slot	Full-size mini-PCIe slot x 1 (For LTE module) (USB I/F) Connect to Daughter board: FFC connector x 2
SIM Slot	Nano-SIM
SD Socket	Push-Push Micro-SD card slot x 1
Camera	4-lane MIPI CSI interface

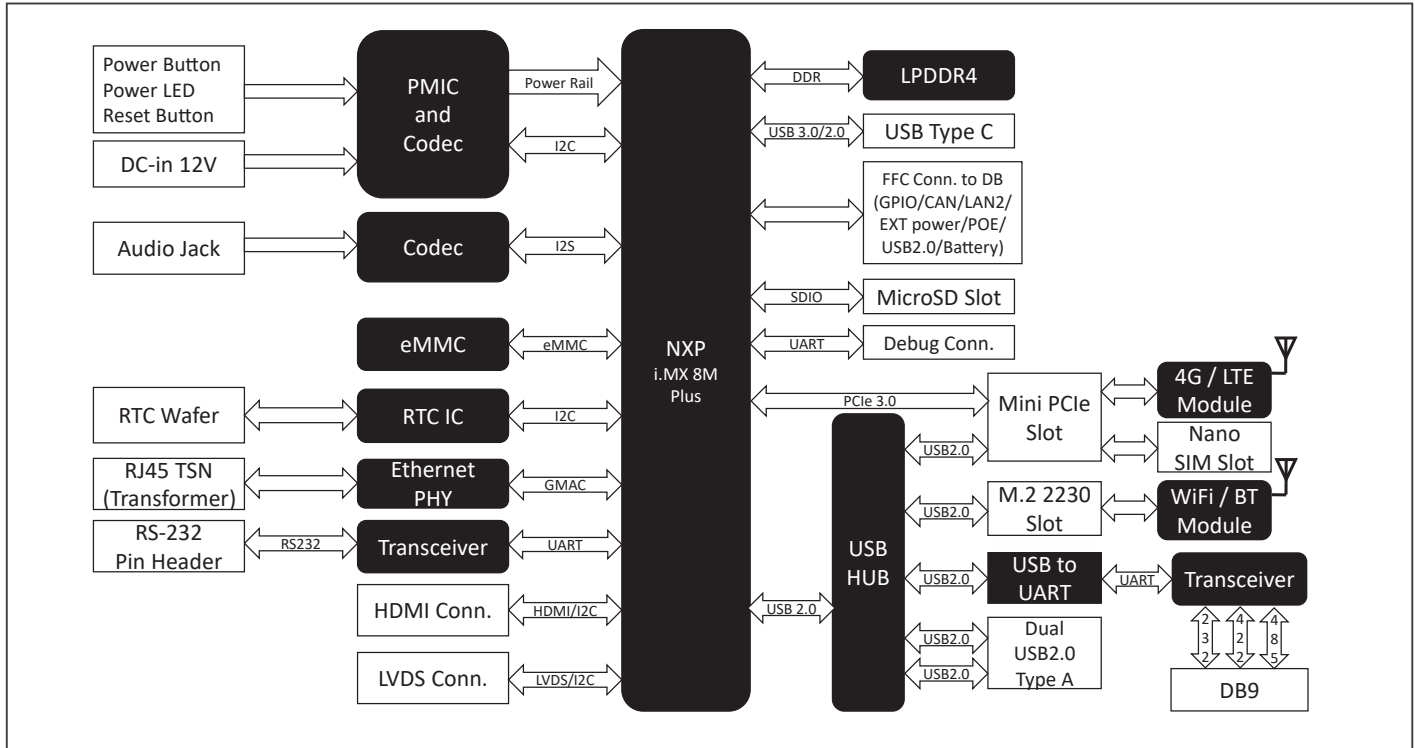
Packing List

- RICO-MX8P
- MB Power Cable
- RTC Battery

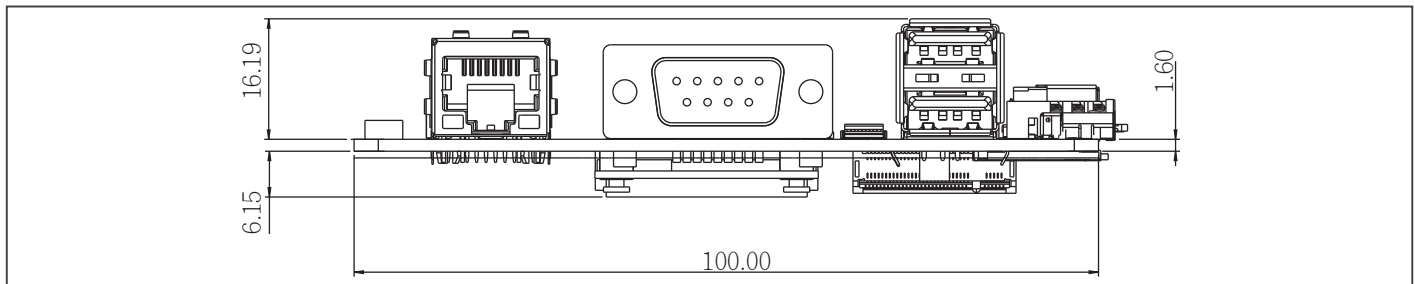
Optional Accessories

Part Number	Description	Qty.
1701090150	COM Cable, Length 15 cm	1
125530060Y	12V/60W Power Adaptor	1

Block Diagram Unit: mm



Dimension Unit: mm



Ordering Information

- RICO-MX8P-A10-0001
- RICO-MX8P-A10-0002

03

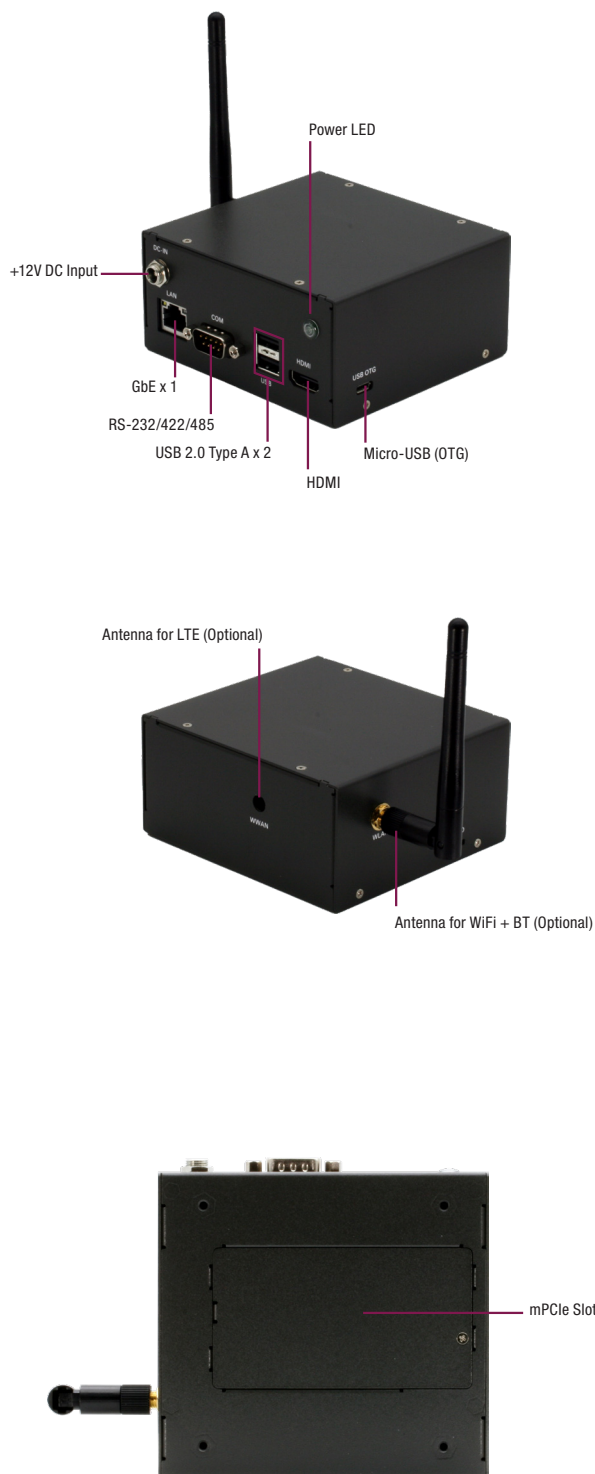
03

RISC Boxes



BOXER-RK88

Fanless Embedded Box PC with Rockchip RK3288



Features

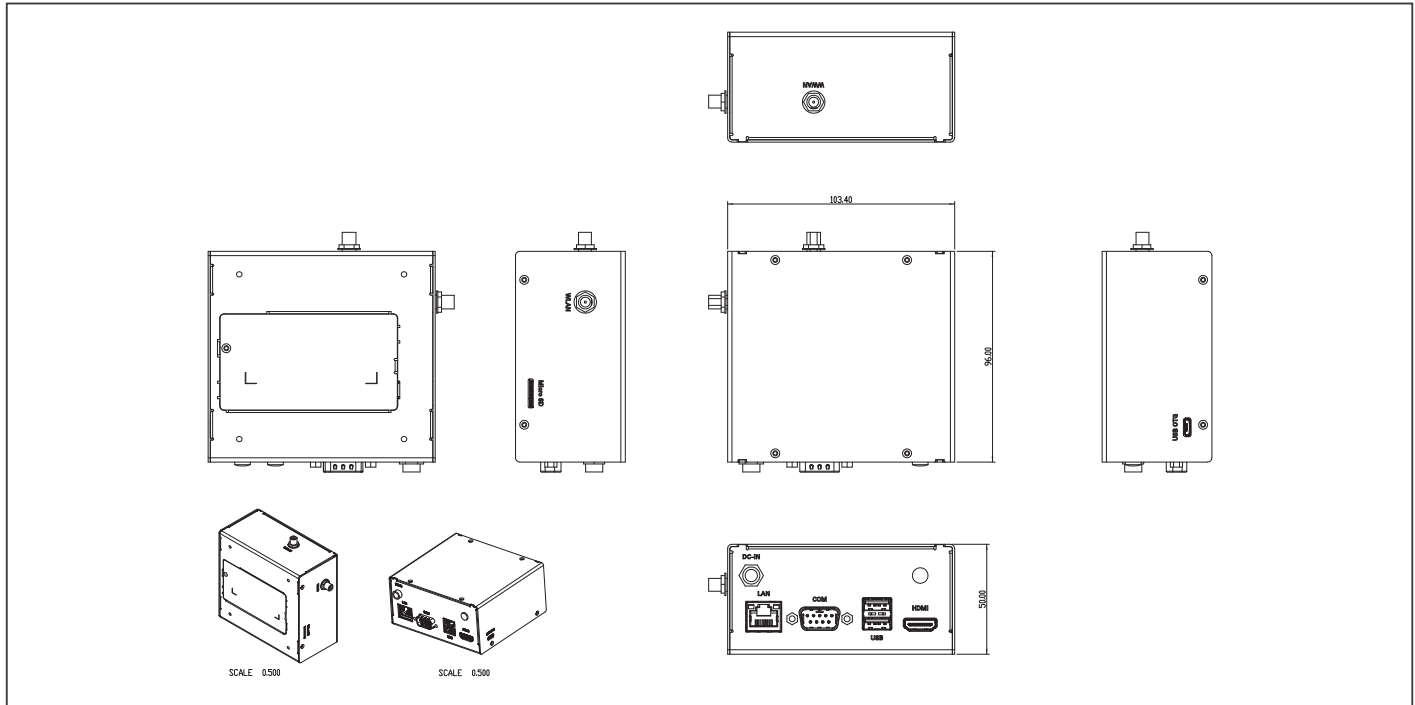
- Rockchip RK3288
- DDR3L 2GB/4GB (Optional)
- eMMC 16GB and Micro-SD Card Slot
- HDMI (1.4) Port x 1
- WiFi 802.11 b/g/n, BT V4.2
- GbE: RJ45 x 1
- USB 2.0: Micro-USB OTG x 1, Type A x 2
- RS-232/422/485 x 1, RS-232 x 1 (Optional)
- mPCIe Slot x 1
- +12V DC Input
- OS Support: Android 9.0
- Compact Size (W x D x H): 103.4 mm x 96 mm x 50 mm

Specifications

System	
CPU	Rockchip RK3288 ARM Cortex™-A17 Quad-core 1.6GHz
GPU	Mali-T764
Chipset	—
Graphics	Video Decode: MPEG-1, MPEG-2, MPEG-4, H.263, H.264, AVS, VC-1, VP8, MVC Video Encode: H.264 (BP@level4.0, MP@level4.0, HP@level4.0), MVC and VP8
System Memory	DDR3L 2GB/4GB (Optional)
Display Interface	HDMI (1.4)
Storage/SSD	16GB eMMC and Micro-SD card
I/O	Micro-SD Card Slot x 1 HDMI (1.4) Port x 1 Antenna Connector for WiFi 802.11 b/g/n, BT V4.2 Antenna Connector for LTE (Optional) GbE: RJ45 x 1 USB 2.0: Micro-USB OTG x 1, Type A x 2 RS-232/422/485 x 1, RS-232 x 1 (Optional)
Expansion	mPCIe Slot x 1 for LTE module
Indicator	Power LED x 1
OS Support	Android 9.0
Power Supply	
Power Requirement	+12V DC input
Mechanical	
Mounting	VESA mount, 75mm x 75mm
Dimension (W x D x H)	4.07" x 3.78" x 1.97" (103.4 mm x 96 mm x 50 mm)
Gross Weight	1.1 lb (0.5 Kg)
Net Weight	0.66 lb (0.3 Kg)
Environmental	
Operating Temperature	32°F ~ 140°F (0°C ~ 60°C)
Storage Temperature	-40°F ~ 176°F (-40°C ~ 80°C)
Storage Humidity	0% ~ 90% relative humidity, non-condensing
Anti-Vibration	—
Certification	CE/FCC/IC

Dimension

Unit: mm



Packing List

- BOXER-RK88

Optional Accessories

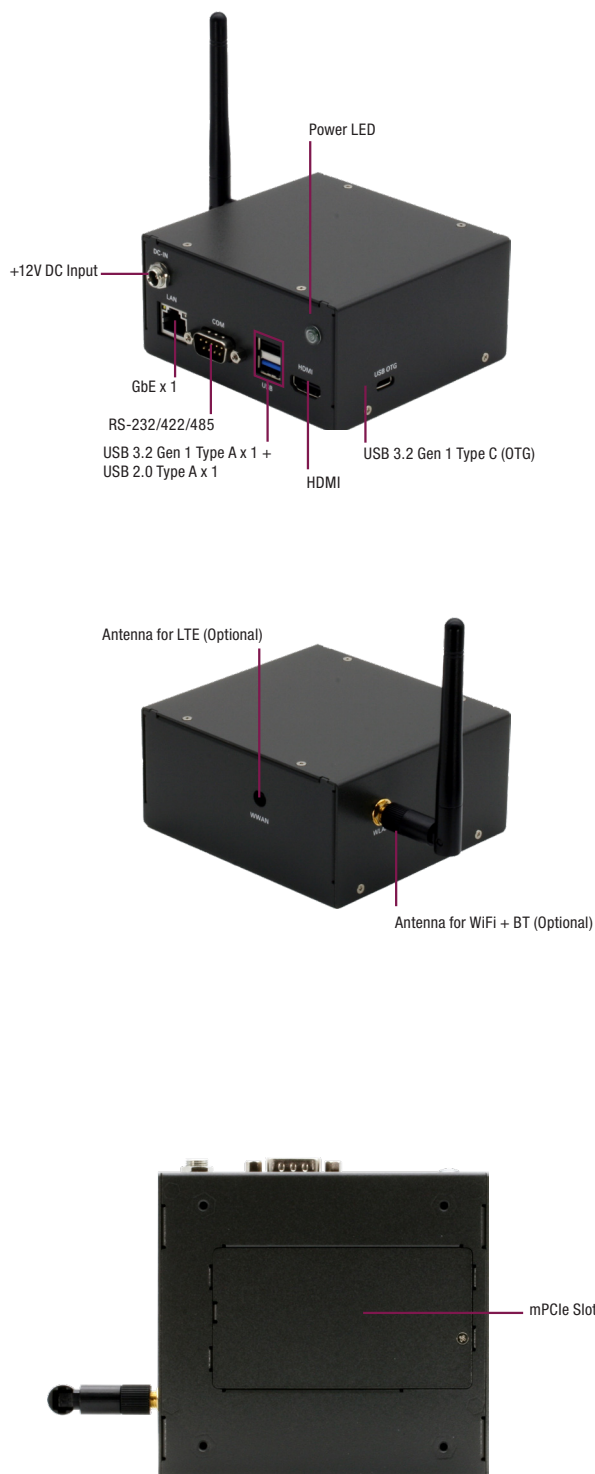
- 125530060Y
12V / 60W Power Adapter
- 175990001X
WiFi 2.4GHz, External Antenna
- 9741EG25G0
EG25-G, W/ SIM Card Holder, RF Cable, External Antenna
- M04BIBX000
Wall-mount Plate

Ordering Information

Part Number	CPU	RAM	Storage	LAN	RS-232	USB	Display	WiFi & BT	3G/LTE Slot
BOXER-RK88-A11-0001	ARM Cortex-A17 1.6GHz	2GB DDR3L	16GB eMMC	GbE x 1	1 (RS-232/422/485)	3	1 (HDMI)	802.11 b/g/n BT 4.2 + EDR	1 (mPCIe Slot)

BOXER-RK99

Fanless Embedded Box PC with Rockchip RK3399



Features

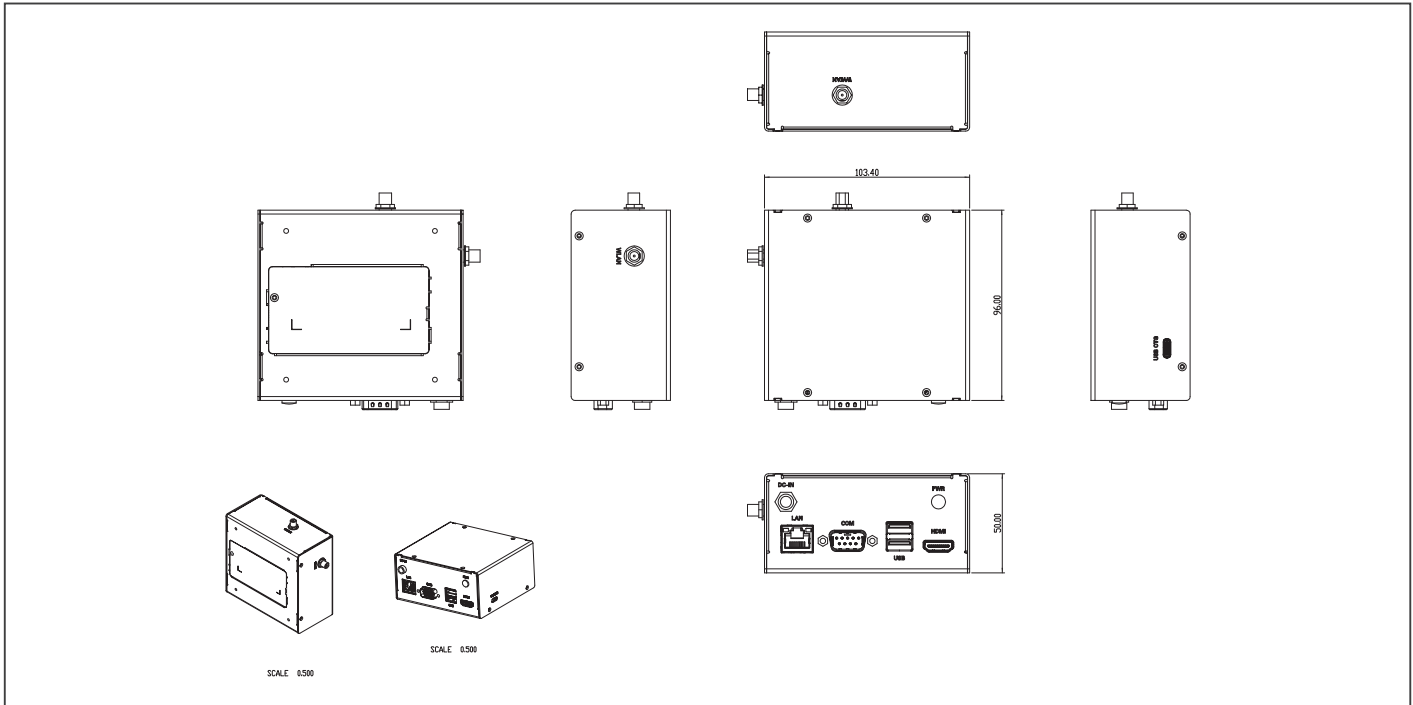
- Rockchip RK3399
- LPDDR3 2GB/4GB (Optional)
- eMMC 16GB and Micro-SD Card Slot
- HDMI (2.0) Port x 1
- WiFi 802.11 b/g/n, BT V4.2
- GbE: RJ45 x 1
- USB 3.2 Gen 1: Type C OTG x 1, Type A x 1
- USB 2.0: Type A x 1
- RS-232/422/485 x 1, RS-232 x 1 (Optional)
- mPCIe Slot x 1
- +12V DC Input
- OS Support: Android 8.1
- Compact Size (W x D x H): 103.4 mm x 96 mm x 50 mm

Specifications

System	
CPU	Rockchip RK3399 ARM Cortex™-A72 Dual-core 1.8GHz and Cortex™-A53 Quad-core 1.4GHz
GPU	Mali-T864
Chipset	—
Graphics	Video Decode: MPEG-1, MPEG-2, MPEG-4, H.263, H.264, H.265, VC-1, VP8, VP9, MVC Video Encode: H.264 UP to HP@level4.1, MVC and VP8
System Memory	LPDDR3 2GB/4GB (Optional)
Display Interface	HDMI (2.0) up to 4K x 2K @ 60Hz
Storage/SSD	16GB eMMC and Micro-SD card
I/O	Micro-SD Card Slot x 1 HDMI (2.0) Port x 1 Antenna Connector for WiFi 802.11 b/g/n, BT V4.2 Antenna Connector for LTE (Optional) GbE: RJ45 x 1 USB 3.2 Gen 1: Type C OTG x 1, Type A x 1 USB 2.0: Type A x 1 RS-232/422/485 x 1, RS-232 x 1 (Optional)
Expansion	mPCIe Slot x 1 for LTE module
Indicator	Power LED x 1
OS Support	Android 8.1
Power Supply	
Power Requirement	+12V DC input
Mechanical	
Mounting	VESA mount, 75mm x 75mm
Dimension (W x D x H)	4.07" x 3.78" x 1.97" (103.4 mm x 96 mm x 50 mm)
Gross Weight	1.1 lb (0.5 Kg)
Net Weight	0.66 lb (0.3 Kg)
Environmental	
Operating Temperature	32°F ~ 140°F (0°C ~ 60°C)
Storage Temperature	-40°F ~ 176°F (-40°C ~ 80°C)
Storage Humidity	0% ~ 90% relative humidity, non-condensing
Anti-Vibration	—
Certification	CE/FCC/IC

Dimension

Unit: mm



Packing List

- BOXER-RK99

Optional Accessories

- 125530060Y
12V / 60W Power Adapter
- 175990001X
WiFi 2.4GHz, External Antenna
- 9741EG25G0
EG25-G, W/ SIM Card Holder, RF Cable, External Antenna
- M04BIBX000
Wall-mount Plate

Ordering Information

Part Number	CPU	RAM	Storage	LAN	RS-232	USB	Display	WiFi & BT	3G/LTE Slot
BOXER-RK99-A10-0001	ARM Dual Cortex-A72 + Quad Cortex-A53	2GB LPDDR3	16GB eMMC	GbE x 1	1 (RS-232/422/485)	3	1 (HDMI)	802.11 a/b/g BT4.2 + EDR	1 (mPCIe Slot)

04

04

All in One Panel PC Solutions



ACP-1108 PRELIMINARY

10.1" WXGA Android Based Panel PC with RockChip RK-3568



Top I/O Side



Rear Side



Bottom I/O Side



Features

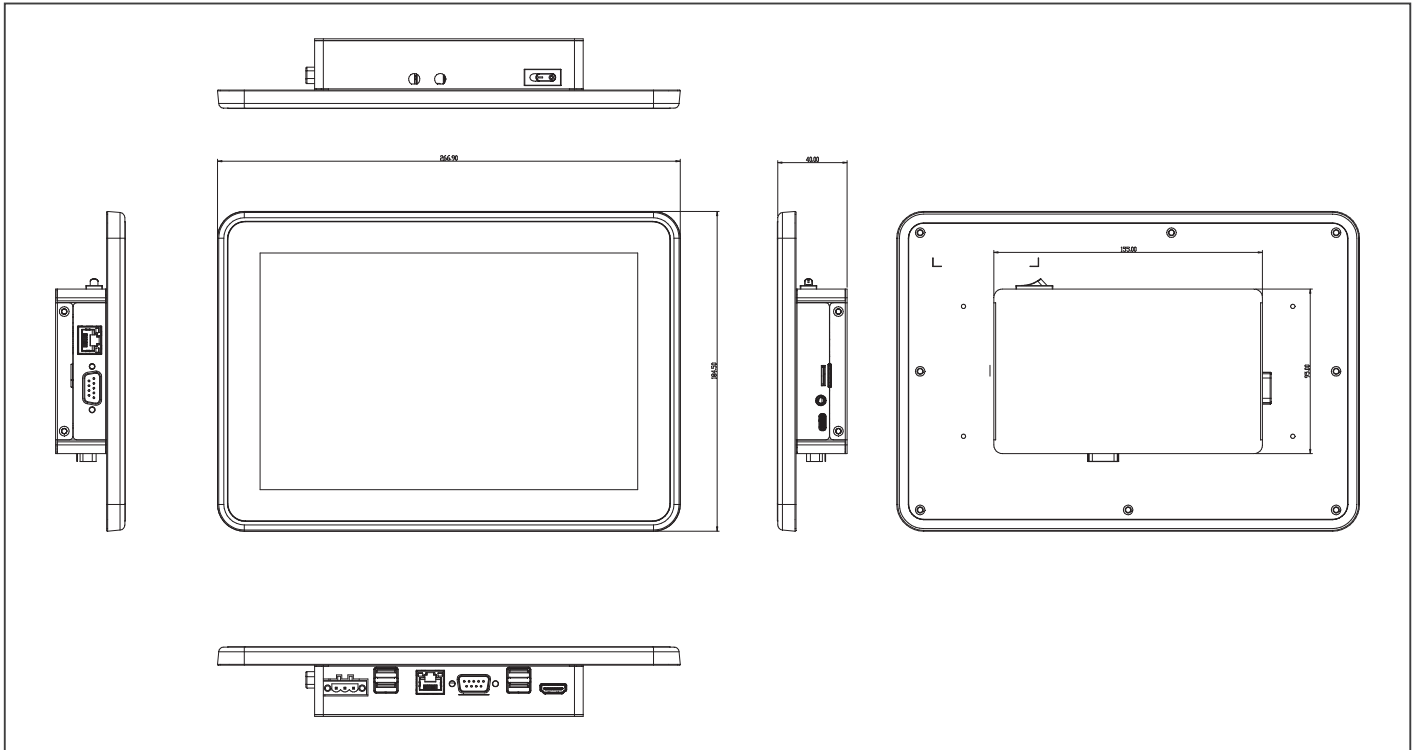
- 10.1" WXGA (1280 x 800) Color TFT LCD Display
- RICO-3568
- Projected Capacitive Touch Screen
- IP65 Compliant Aluminum Front Bezel
- Fanless System
- VESA/Panel Mount Support
- LAN x2, COM x2, USB 3.2 Gen1 Type A x2, USB 2.0 x2
- USB 3.2 Gen1 Type C x1
- HDMI x1, Audio x1
- Full Size Mini Card Expansion Slot x1
- DC 9~36V



System	
Processor	RockChipRK3568 ARM Cortex™-A55 Quad-core
System Memory	LPDDR4 2GB/4GB (Optional)
LCD/CRT controller	—
Ethernet	10/100/1000 Base TX x2
I/O Port	LAN x2 COM x2 USB 3.2 Gen 1 Type C OTG x 1 (For System Recovery) USB 3.2 Gen 1 x2 USB 2.0 x2 HDMI x 1 Audio x1
Storage Disk Drive	16GB eMMC and Micro-SD card
Expansion Slot	Full-size mini-PCIe slot x 1 (PCIe 3.0 x 1 or mSATA)
OS support	Android 12 / Debian
Mechanical	
Construction	Aluminum Front Bezel + Metal Chassis
Mounting	VESA / Panel Mount
Dimension	TBD
Carton Dimension	TBD
Gross Weight	TBD
Environmental	
Operating Temperature	23°F ~131°F (-5°C ~ 50°C) with 0.5 m/s airflow
Storage Temperature	-4°F ~ 140°F (-20°C ~ 60°C)
Storage Humidity	90% @40°C; non-condensing
Vibration	1Grms / 5~ 500Hz / operation
Shock	15 G peak acceleration (11 msec. duration)
EMC	CE/FCC Class A Compatible
Power Supply	
DC Input	DC 9~36V
LCD	
Display Type	10.1" WXGA (1280 x 800) Color TFT LCD Display
Max Resolution	1280 x 800
Max. Colors	262K colors (6 bit for R,G,B)
Luminance	300 nits
Viewing Angle	170° (H) ; 170° (V)
Back Light	LED
Back Light MTBF (Hours)	25,000 Hrs
Touchscreen	
Type	Projected Capacitive Multi-Touch
Light Transmission	90%

Dimension

Unit: mm



Ordering Information

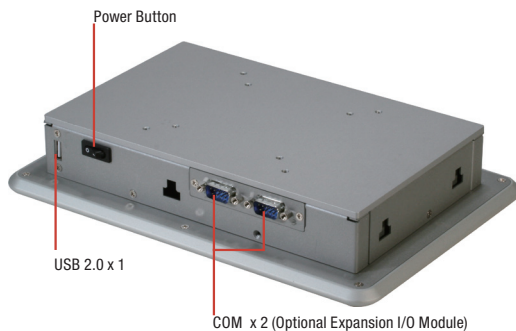
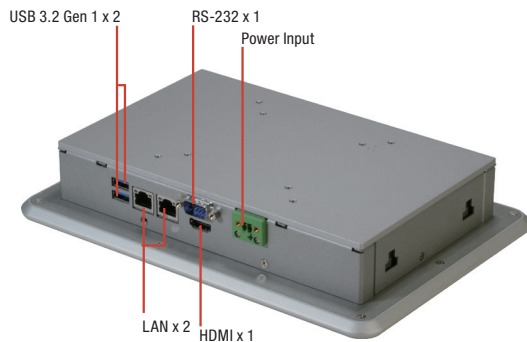
- TBD

Packing List

- ACP-1108
- TBD

Optional Accessories

- TBD



9761107601
USB 2.0 x 2



9761107600
RS-232/422/485 x 2



Features

- 10.1" WXGA (1280 x 800) Color TFT LCD Display
- Intel® Pentium® N4200/ Celeron® N3350 Processor
- Projected Capacitive Multi Touch
- IP65 Compliant Aluminum Front Bezel
- Fanless System
- VESA 75/Panel Mount Support
- DC 9~30V



Specifications

System	
Processor	Intel® Pentium® N4200 processor, 1.1 GHz (Quad-Core), Burst frequency 2.5GHz Intel® Celeron® N3350 processor, 1.1 GHz (Dual-Core), Burst frequency 2.4GHz
System Memory	204-pin DDR3L SODIMM x 1, Build-in 4GB, Max. 8GB
LCD/CRT controller	Integrated in processor
Ethernet	10/100/1000 Base-TX, RJ-45 x 2
Bottom I/O Port	DB9 Type RS-232 x 1 USB 3.2 Gen 1 x 2 HDMI x 1 RJ-45 10/100/1000 LAN x 2 2 Pin terminal block for power input
Top I/O Port	Power Button x 1 Type A USB 2.0 x 1 Expansion I/O Slot
Storage Disk Drive	Full Size mSATA x 1
Expansion Slot	Half size mini card x 1 (Internal)
OS support	Windows® 10, Linux Kernel 4.4.0 or higher
Mechanical	
Construction	Aluminum Front Bezel + Metal Chassis
Mounting	VESA 75, Panel Mount
Dimension	10.47" x 7.24 x 1.89" (266 x 184 x 48mm)
Carton Dimension	13.38" x 7.64 x 9.96" (340 x 194 x 253mm)
Gross Weight	6.38 lb (2.9 kg)
Environmental	
Operating Temperature	23°F ~ 122°F (-5°C ~ 50°C) with 0.5 m/s airflow
Storage Temperature	-4°F ~ 158°F (-20°C ~ 70°C)
Storage Humidity	90% @40°C; non-condensing
Vibration	1 Grms/ 5~ 500Hz/ operation – with HDD
Shock	—
EMC	CE/FCC Class A
Power Supply	
DC input	DC 9~30V
LCD	
Display Type	10.1" TFT-LCD, LED
Max Resolution	1280 x 800
Max. Colors	262K colors (6 bit for R,G,B)
Luminance	300 cd/m²
Viewing Angle	170° (H), 170° (V)
Back Light	LED
Back Light MTBF (Hours)	—
Touch Screen	
Type	P-CAP Touchscreen
Light Transmission	90%



Part Number	Display Type	Max Resolution	Lumi-nance	View Angle	Backlight MTBF	CPU	LAN	USB 3.2 Gen 1	USB 2.0	RS-232	RS-232 /422/485	Storage	RAM	Display	Expansion	Mounting	Power	Temp.	Touch
ACP-1106HTT-A1-1012	10.1" TFT-LCD	1280 x 800	300 cd/m ²	170°(H)/170°(V)	25,000	Intel® Pentium® N4200	2	2	1	1	0	Full Size mSATA x 1	4GB DDR3L RAM Included	HDMI x 1	- Half size mini card slot x 1 - Expansion I/O window x 1	Stand, Panel, VESA 75	DC 9~30V	23°F ~ 122°F (-5°C ~ 50°C) (w/ airflow)	PCAP T/S
ACP-1106HTT-A3-1012	10.1" TFT-LCD	1280 x 800	300 cd/m ²	170°(H)/170°(V)	25,000	Intel® Celeron® N3350	2	2	1	1	0	Full Size mSATA x 1	4GB DDR3L RAM Included	HDMI x 1	- Half size mini card slot x 1 - Expansion I/O window x 1	Stand, Panel, VESA 75	DC 9~30V	23°F ~ 122°F (-5°C ~ 50°C) (w/ airflow)	PCAP T/S
ACP-1106HTT-B1-1012	10.1" TFT-LCD	1280 x 800	300 cd/m ²	170°(H)/170°(V))	25,000	Intel® Pentium® N4200	2	2	1	1	0	Full Size mSATA x 1	4GB DDR3L RAM Included	HDMI x 1	- Half size mini PCIe slot x 1 with WiFi module installed - Expansion I/O window x 1	Stand, Panel, VESA 75	DC 9~30V	23°F ~ 122°F (-5°C ~ 50°C) (w/ airflow)	PCAP T/S
ACP-1106HTT-B3-1012	10.1" TFT-LCD	1280 x 800	300 cd/m ²	170°(H)/170°(V)	25,000	Intel® Celeron® N3350	2	2	1	1	0	Full Size mSATA x 1	4GB DDR3L RAM Included	HDMI x 1	- Half size mini PCIe slot x 1 with WiFi module installed - Expansion I/O window x 1	Stand, Panel, VESA 75	DC 9~30V	23°F ~ 122°F (-5°C ~ 50°C) (w/ airflow)	PCAP T/S

- Panel Mount Kit
- VESA Screws
- ACP-1106

- **1702031802**
Power Cord (US Type)
- **1702031803**
Power Cord (European Type)
- **170203180E**
Power Cord (Japanese Type)
- **M041073020**
Stand Kit
- **9761107600**
RS-232/422/485 x 2 (Expansion I/O Module)
- **9761107601**
USB 2.0 x 2 (Expansion I/O Module)
- **1255300611**
2 Pin 60W power adapter

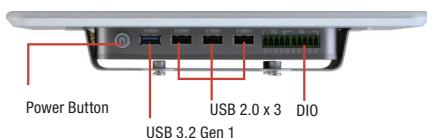
- **AP-SS968C008G1N**
Full-sized, 8GB mSATA, MLC, -40°C ~ 85°C
- **AP-SS968C016G3P**
Full-sized, 16GB mSATA, MLC, -40°C ~ 90°C
- **AP-SS968C032G3R**
Full-sized, 32GB mSATA, MLC, -40°C ~ 90°C
- **AP-SS968C064G3F**
Full-sized, 64GB mSATA, MLC, -40°C ~ 90°C
- **AP-SS968C128G1W**
Full-sized, 128GB mSATA, MLC, -40°C ~ 90°C
- **9C1128G009**
Full-size, 128GB mSATA SSD, 3D TLC, -40°C~85°C
- **9C1256G00B**
Full-size, 256GB mSATA SSD, 3D TLC, -40°C~85°C
- **9C1512G004**
Full-size, 512GB mSATA SSD, 3D TLC, -40°C~85°C
- **9C1001T005**
Full-size, 1TB mSATA SSD, 3D TLC, -40°C~85°C
Note: AAEON factory-installed mSATA HDD is strongly recommended.

ACP-1104

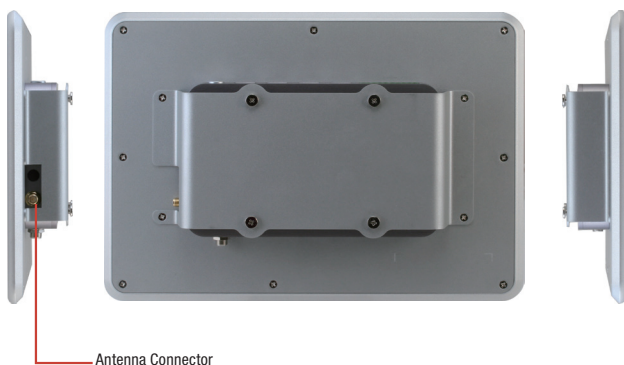
10.1" WXGA Ultra-slim Fanless Multi Touch Panel PC w/ Intel® Celeron® J1900/ N2807 Processor, 2GB RAM



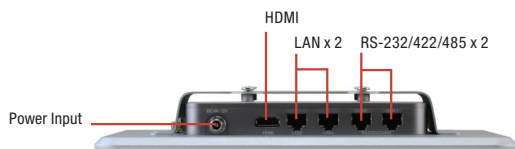
Top I/O Side



Rear Side



Button I/O Side



Features

- 10.1" WXGA (1280 x 800) Color TFT LCD Display
- Intel® Celeron® J1900/ N2807 Processor
- Aluminum Design
- P-CAP Multi-touch
- Fanless Operation
- VESA 75/ Panel Mount/ Stand Support
- IP65 Compliant Front Bezel

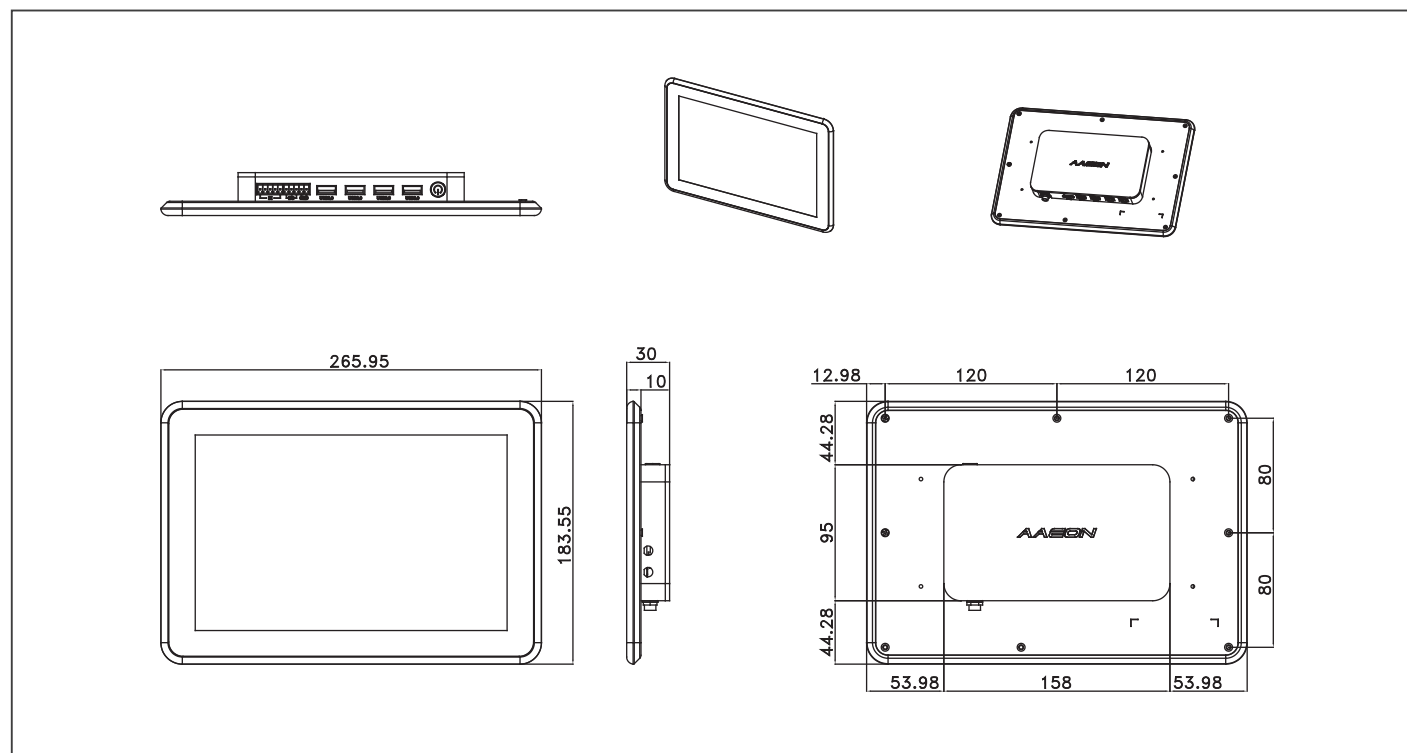


Specifications

System	
Processor	Intel® Celeron® J1900 processor, 2 GHz Intel® N2807 processor, 1.58 GHz
System Memory	204-pin DDR3L 1333MHz SODIMM x 1, default 2 GB, up to 8 GB (J1900) 204-pin DDR3L 1333MHz SODIMM x 1, default 2 GB, up to 4 GB (N2807)
LCD/CRT controller	—
Ethernet	10/100/1000 Base-TX, RJ-45 x 2
I/O Port	RS-232/422/485 x 2 (RJ-45 connector) USB 2.0 type A x 3 USB 3.2 Gen 1 type A x 1 HDMI x 1 DI/O (4 DI, 2 DO) BIOS selection Power button x 1 Lockable power connector x 1
Storage Disk Drive	Half size mSATA x 1 (Installation by AAEON recommended)
Expansion Slot	Full size Mini-Card x 1
OS support	Windows® 7, Windows® 8.1, Windows® 10, Linux kernel 2.6.3 or higher, Android 4.4.4
Mechanical	
Front Panel	Aluminum Design
Mounting	VESA 75/ Panel mount/ Stand
Dimension	10.47" x 7.22" x 1.81" (266 x 183.5 x 30mm)
Carton Dimension	13.58" x 7.87" x 9.65" (345 x 200 x 245mm)
Gross Weight	5.5 lb (2.5 kg)
Environmental	
Operating Temperature	32°F ~ 113°F (0°C ~ 45°C) without airflow 32°F ~ 122°F (0°C ~ 50°C) with airflow
Storage Temperature	-4°F ~ 158°F (-20°C ~ 70°C)
Storage Humidity	5%~90% @40°C, non-condensing
Vibration	1 Grms/ 5~ 500Hz/ operation
Shock	15 G peak acceleration (11 msec. duration)
EMC	CE/FCC class A
Power Supply	
DC Input	DC 12V with lockable power adapter
LCD	
Display Type	10.1" TFT-LCD, LED
Max. Resolution	1280 x 800
Max. Colors	262k
Luminance	300 cd/m ²
Viewing Angle	170° (H), 170° (V)
Back Light	LED
Back Light MTBF (Hours)	—
Touchscreen	
Type	Projected capacitive multi-touch
Light Transmission	—

Dimension

Unit: mm



Ordering Information

Part Number	Display Type	Max. Resolution	Luminance	View Angle	Backlight MTBF	CPU	LAN	USB	RS-232	RS-232/422/485	Storage	RAM	Display	Expansion	Mounting	Power	Temp.	Touch
ACP-1104HTT-A1-1014	10.1" TFT-LCD	1280 x 800	300 cd/m ²	170°(H), 170°(V)	25,000	Intel® Celeron® J1900, 2.0 GHz	2	USB 3.2 Gen 1 x 1, USB 2.0 x 3	—	2	Half size mSATA	2GB	HDMI x 1	—	VESA 75/Stand	DC 12V	32°F ~ 113°F (0°C ~ 45°C) (mSATA, w/o airflow) 32°F ~ 122°F (0°C ~ 50°C) (mSATA, w/ airflow)	Projected Capacitive touch
ACP-1104HTT-B1-1014	10.1" TFT-LCD	1280 x 800	300 cd/m ²	170°(H), 170°(V)	25,000	Intel® Celeron® J1900, 2.0 GHz	2	USB 3.2 Gen 1 x 1, USB 2.0 x 3	—	2	Half size mSATA	2GB	HDMI x 1	WiFi	VESA 75/Stand	DC 12V	32°F ~ 113°F (0°C ~ 45°C) (mSATA, w/o airflow) 32°F ~ 122°F (0°C ~ 50°C) (mSATA, w/ airflow)	Projected capacitive touch
ACP-1104HTT-A3-1014	10.1" TFT-LCD	1280 x 800	300 cd/m ²	170°(H), 170°(V)	25,000	Intel® Celeron® N2807, 1.58 GHz	2	USB 3.2 Gen 1 x 1, USB 2.0 x 3	—	2	Half size mSATA	2GB	HDMI x 1	—	VESA 75/Stand	DC 12V	32°F ~ 113°F (0°C ~ 45°C) (mSATA, w/o airflow) 32°F ~ 122°F (0°C ~ 50°C) (mSATA, w/ airflow)	Projected capacitive touch
ACP-1104HTT-B3-1014	10.1" TFT-LCD	1280 x 800	300 cd/m ²	170°(H), 170°(V)	25,000	Intel® Celeron® N2807, 1.58 GHz	2	USB 3.2 Gen 1 x 1, USB 2.0 x 3	—	2	Half size mSATA	2GB	HDMI x 1	WiFi	VESA 75/Stand	DC 12V	32°F ~ 113°F (0°C ~ 45°C) (mSATA, w/o airflow) 32°F ~ 122°F (0°C ~ 50°C) (mSATA, w/ airflow)	Projected capacitive touch

Packing List

- **125530060Y**
Power Adapter, DC12V, 60W
- **1700090156 x 2**
RJ-45 to COM Cable
- **VESA Mount Kit**
- **9741107300**
Panel Mount Kit
- **VESA Screws**
- **ACP-1104**

Optional Accessories

- **1702031802**
Power Cord (US Type)
- **1702031803**
Power Cord (European Type)
- **170203180E**
Power Cord (Japanese Type)
- **M041073020**
Stand Kit

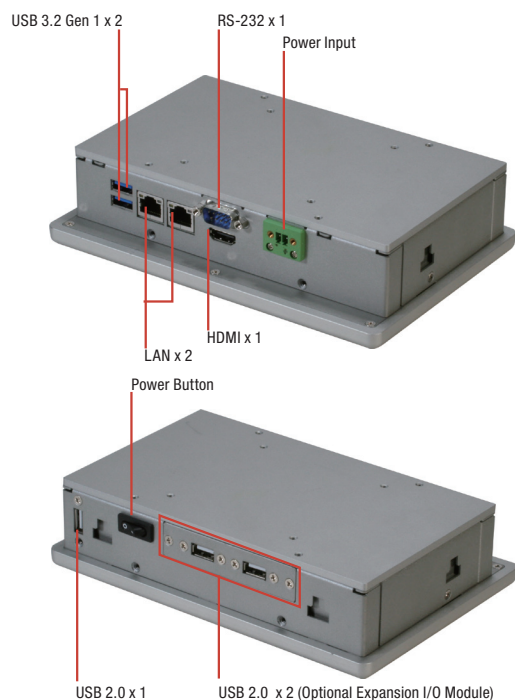
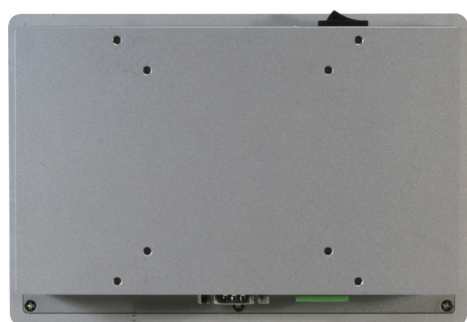
Half Size mSATA Storage Device:

- **AP-SS968C016G3N**
(TF)Half-sized, 16 GB, mSATA SSD, MLC, -40°C ~ +85°C
- **968C032G3Q**
(TF)Half-sized, 32 GB, mSATA SSD, MLC, -40°C ~ +85°C
- **AP-SS9C1064G003**
(TF)Half-sized, 64 GB, mSATA SSD, MLC, -40°C ~ +85°C
- **AP-SS968C128G1V**
(TF)Half-sized, 128 GB, mSATA SSD, MLC, -40°C ~ +85°C
- **9C1030G002**
(TF)Half-size, 30GB.mSATA SSD, 3D TLC, -40°C~85°C
- **9C1060G002**
(TF)Half-size, 60GB.mSATA SSD, 3D TLC, -40°C~85°C
- **9C1120G002**
(TF)Half-size, 120GB.mSATA SSD, 3D TLC, -40°C~85°C
- **9C1240G001**
(TF)Half-size, 240GB.mSATA SSD, 3D TLC, -40°C~85°C

Note: AAEON factory-installed mSATA HDD is strongly recommended.

ACP-1076

7" SWXGA Multi-Touch Panel PC with Intel® Pentium® N4200/ Celeron® N3350 Processor, 4 GB RAM



9761107601
USB 2.0 x 2



9761107600
RS-232/422/485 x 2



Features

- 7" WXGA (1024 x 600) Color TFT LCD Display
- Intel® Pentium® N4200/ Celeron® N3350 Processor
- Projected Capacitive Multi Touch (2 Fingers)
- IP65 Compliant Aluminum Front Bezel
- Fanless System
- VESA 75/ Panel Mount Support
- DC 9~30V

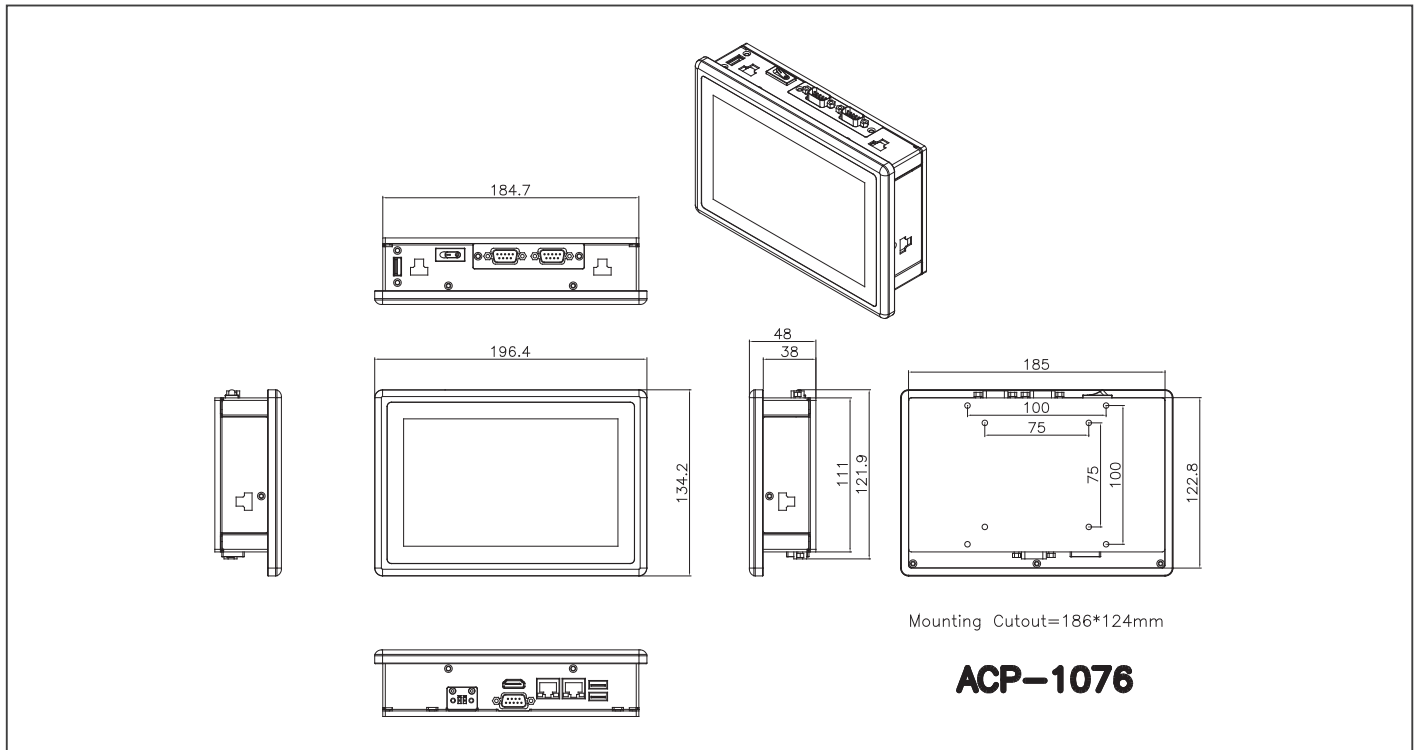


Specifications

System	
Processor	Intel® Pentium® N4200 processor, 1.1 GHz (Quad-Core), Burst frequency 2.5GHz Intel® Celeron® N3350 processor, 1.1 GHz (Dual-Core), Burst frequency 2.4GHz
System Memory	204-pin DDR3L SODIMM x 1, Build-in 4GB, Max. 8GB
LCD/CRT controller	Integrated in processor
Ethernet	10/100/1000 Base-TX, RJ-45 x 2
Bottom I/O Port	DB9 Type RS-232 x 1 USB 3.2 Gen 1 x 2 HDMI x 1 RJ-45 10/100/1000 LAN x 2 2 Pin terminal block for power input
Top I/O Port	Power Button x 1 Type A USB 2.0 x 1 Expansion I/O Slot
Storage Disk Drive	Full Size mSATA x 1
Expansion Slot	Half size mini card x 1 (Internal)
OS support	Windows® 10, Linux Kernel 4.4.0 or higher
Mechanical	
Construction	Aluminum Front Bezel + Metal Chassis
Mounting	VESA 75, Panel Mount
Dimension	7.72" x 5.28" x 1.89" (196 x 134 x 48 mm)
Carton Dimension	10.87" x 9.41" x 6.69" (276 x 239 x 170 mm)
Gross Weight	4.62 lb (2.1 Kg)
Environmental	
Operating Temperature	23°F ~ 122°F (-5°C ~ 50°C) with 0.5 m/s airflow
Storage Temperature	-4°F ~ 158°F (-20°C ~ 70°C)
Storage Humidity	90% @40°C; non-condensing
Vibration	1 Grms/ 5~ 500Hz/ operation – with HDD
Shock	15 G peak acceleration (11 msec. duration) – with HDD
EMC	CE/FCC Class A
Power Supply	
DC input	DC 9~30V
LCD	
Display Type	7" TFT-LCD, LED
Max Resolution	1024 x 600
Max. Colors	16.7M
Luminance	320 cd/m²
Viewing Angle	150° (H), 145° (V)
Back Light	LED
Back Light MTBF (Hours)	20,000
Touch Screen	
Type	P-CAP Touchscreen
Light Transmission	90%

Dimension

Unit: mm



Ordering Information

Part Number	Display Type	Max Resolution	Luminance	View Angle	Backlight MTBF	CPU	LAN	USB 3.2 Gen 1	USB 2.0	RS-232	RS-232 /422/485	Storage	RAM	Display	Expansion	Mounting	Power	Temp.	Touch
ACP-1076HTT-A1-1012	7" TFT-LCD	1024 x 600	320 cd/m ²	150(H) / 145(V)	20,000	Intel® Pentium N4200	2	2	1	1	0	Full Size mSATA x 1	4GB DDR3L RAM Included	HDMI x 1	- Half size mini PCIe slot x 1 - Expansion I/O window x 1	Stand, Panel, VESA 75	DC 9~30V	23°F ~ 122°F (-5°C ~ 50°C) (w/ airflow)	PCAP T/S
ACP-1076HTT-A3-1012	7" TFT-LCD	1024 x 600	320 cd/m ²	150(H) / 145(V)	20,000	Intel® Celeron N3350	2	2	1	1	0	Full Size mSATA x 1	4GB DDR3L RAM Included	HDMI x 1	- Half size mini PCIe slot x 1 - Expansion I/O window x 1	Stand, Panel, VESA 75	DC 9~30V	23°F ~ 122°F (-5°C ~ 50°C) (w/ airflow)	PCAP T/S
ACP-1076HTT-B1-1012	7" TFT-LCD	1024 x 600	320 cd/m ²	150(H) / 145(V)	20,000	Intel® Pentium N4200	2	2	1	1	0	Full Size mSATA x 1	4GB DDR3L RAM Included	HDMI x 1	- Half size mini PCIe slot x 1 with WiFi module installed - Expansion I/O window x 1	Stand, Panel, VESA 75	DC 9~30V	23°F ~ 122°F (-5°C ~ 50°C) (w/ airflow)	PCAP T/S
ACP-1076HTT-B3-1012	7" TFT-LCD	1024 x 600	320 cd/m ²	150(H) / 145(V)	20,000	Intel® Celeron N3350	2	2	1	1	0	Full Size mSATA x 1	4GB DDR3L RAM Included	HDMI x 1	- Half size mini PCIe slot x 1 with WiFi module installed - Expansion I/O window x 1	Stand, Panel, VESA 75	DC 9~30V	23°F ~ 122°F (-5°C ~ 50°C) (w/ airflow)	PCAP T/S

Packing List

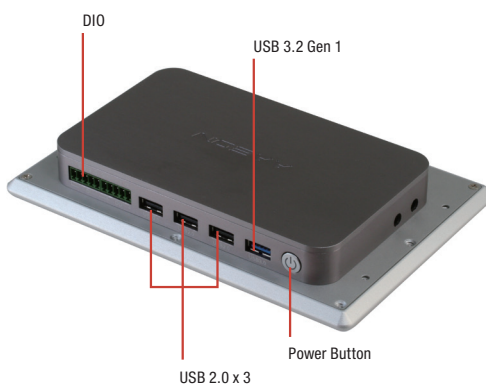
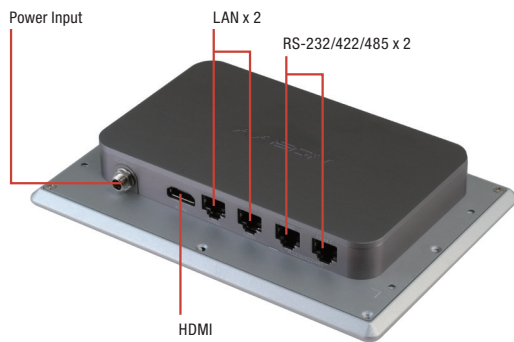
- Panel Mount Kit
- VESA Screws
- ACP-1076

Optional Accessories

- **1702031802**
Power Cord (US Type)
- **1702031803**
Power Cord (European Type)
- **170203180E**
Power Cord (Japanese Type)
- **M041073020**
Stand Kit
- **9761107600**
RS-232/422/485 x 2 (Expansion I/O Module)
- **9761107601**
USB 2.0 x 2 (Expansion I/O Module)
- **1255300611**
2 Pin 60W power adapter

Full Size mSATA Storage Device:

- **AP-SS968C008G1N**
Full-sized, 8GB mSATA, MLC, -40°C ~ 85°C
 - **AP-SS968C016G3P**
Full-sized, 16GB mSATA, MLC, -40°C ~ 85°C
 - **AP-SS968C032G3R**
Full-sized, 32GB mSATA, MLC, -40°C ~ 85°C
 - **AP-SS968C064G3F**
Full-sized, 64GB mSATA, MLC, -40°C ~ 85°C
 - **AP-SS968C128G1W**
Full-sized, 128GB mSATA, MLC, -40°C ~ 85°C
 - **9C1256G00B**
Full-size, 256GB.mSATA SSD, 3D TLC, -40°C~85°C
 - **9C1512G004**
Full-size, 512GB.mSATA SSD, 3D TLC, -40°C~85°C
 - **9C1001T005**
Full-size, 1TB.mSATA SSD, 3D TLC, -40°C~85°C
- Note: AAEON factory-installed mSATA HDD is strongly recommended.



Features

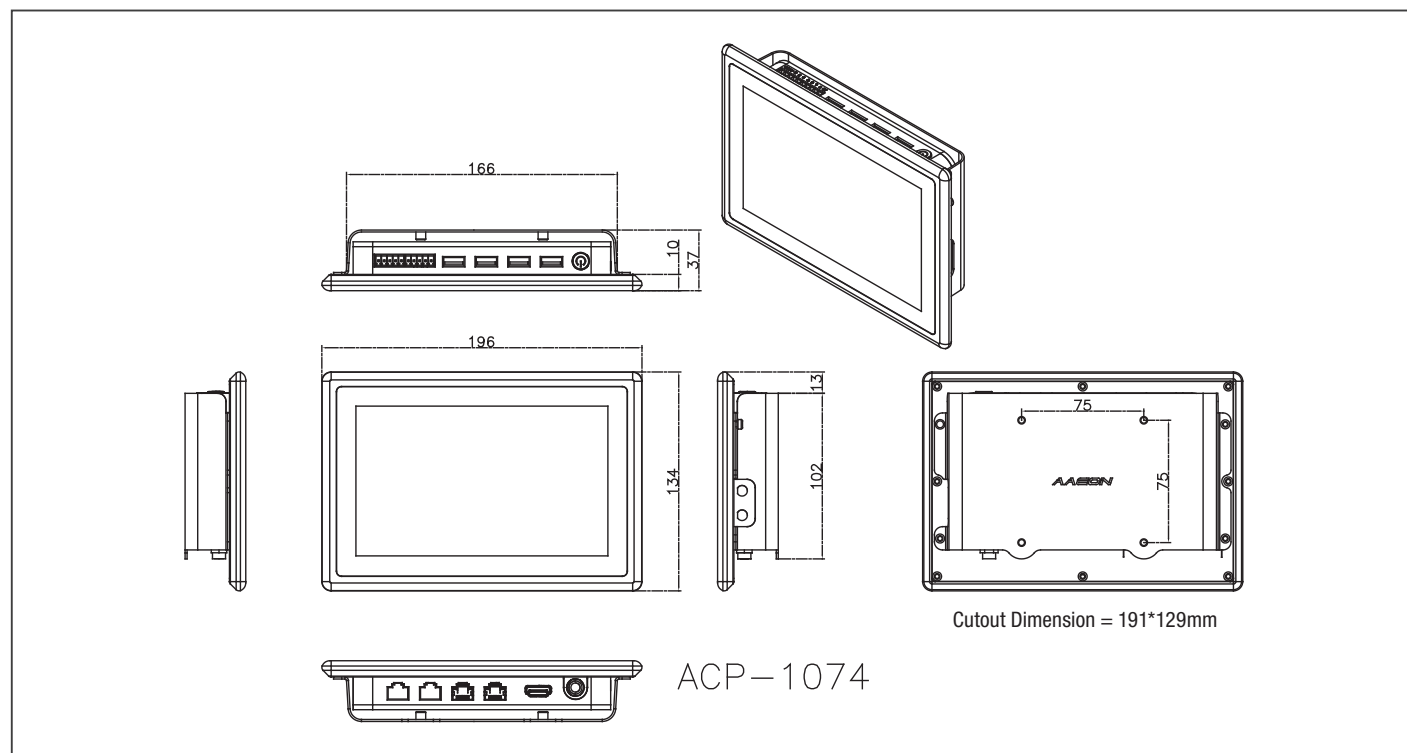
- 7" WSVGA (1024 x 600) Color TFT LCD Display
- Intel® N2807/J1900 Processor
- Wide Flatscreen with P-CAP Multi-Touch (2-point)
- 7H Anti-scratch Surface
- Aluminum Design
- IP65 Compliant
- Fanless Operation
- VESA 75/Panel Mount/ Stand Support



System	
Processor	Intel® N2807 processor, 1.58 GHz Intel® Celeron® J1900 processor, 2 GHz
System Memory	204-Pin DDR3L SODIMM x 1, default 2GB, up to 8 GB (J1900) 204-Pin DDR3L SODIMM x 1, default 2GB, up to 4 GB (N2807)
LCD/CRT controller	Integrated in processor
Ethernet	10/100/1000 Base-TX, RJ-45 x 2
I/O Port	RJ-45 type RS-232/422/485 x 2 USB 2.0 x 3 USB 3.2 Gen 1 x 1 HDMI x 1 RJ-45 10/100/1000 LAN x 2 DI/O (4DI, 2DO) BIOS Selection Lockable power input connector Power switch x 1
Storage Disk Drive	Half size mSATA storage x 1 (Installation by AAEON recommended)
Expansion Slot	Full size Mini-Card x 1
OS support	Windows® 7, Windows® 8.1, Windows® 10, Linux kernel 2.6.3 or higher
Mechanical	
Construction	Aluminum Design
Mounting	VESA 75/ Panel mount/ Stand
Dimension	7.71" x 5.27" x 1.18" (196mm x 134mm x 30mm)
Carton Dimension	13.58" x 7.87" x 9.64" (345mm x 200mm x 245mm)
Gross Weight	5.5 lb (2.5 kg)
Environmental	
Operating Temperature	32°F ~ 122°F (0°C ~ 50°C) without airflow 23°F ~ 131°F (-5°C ~ 55°C) with airflow
Storage Temperature	-4°F ~ 158°F (-20°C ~ 70°C)
Storage Humidity	5%~90% @40°C, non-condensing
Vibration	1 Grms/ 5~ 500Hz/ operation – with HDD
Shock	15G peak acceleration (11 msec. duration) – with HDD
EMC	CE/FCC class A
Power Supply	
DC Input	DC12V, with lockable power adapter
LCD	
Display Type	7" TFT-LCD, LED
Max Resolution	1024 x 600
Max. Colors	16.7M
Luminance	320 cd/m ²
Viewing Angle	150° (H), 145° (V)
Back Light	LED
Back Light MTBF (Hours)	20,000
Touchscreen	
Type	Projected capacitive multi-touch (2-point)
Light Transmission	90%

Dimension

Unit: mm



Ordering Information

Part Number	Display Type	Max Resolution	Luminance	View Angle	Backlight MTBF	CPU	LAN	USB 3.2 Gen 1	USB 2.0	RS-232	RS-232 /422/485	Storage	RAM	Display	Expansion	Mounting	Power	Temp.	Touch
ACP-1074HTT-A1-1013	7" TFT-LCD	1024 x 600	320 cd/m ²	150°(H)/145°(V)	20,000	Intel® Celeron® J1900, 2 GHz	2	1	3	—	2	Half Size mSATA x 1	2G DDR3L RAM Include	VGA x 1	—	Panel Mount/ VESA 75/ Stand	DC 12V	0°C ~ 50°C (w/o airflow) -3°F ~ 131°F (-5°C ~ 55°C) (w/ airflow)	Projected Capacitive multi-touch (2-point)
ACP-1074HTT-A3-1013	7" TFT-LCD	1024 x 600	320 cd/m ²	150°(H)/145°(V)	20,000	Intel® N2807, 1.58 GHz	2	1	3	—	2	Half Size mSATA x 1	2G DDR3L RAM Include	VGA x 1	—	Panel Mount/ VESA 75/ Stand	DC 12V	0°C ~ 50°C (w/o airflow) -3°F ~ 131°F (-5°C ~ 55°C) (w/ airflow)	Projected Capacitive multi-touch (2-point)
ACP-1074HTT-B1-1013	7" TFT-LCD	1024 x 600	320 cd/m ²	150°(H)/145°(V)	20,000	Intel® Celeron® J1900, 2 GHz	2	1	3	—	2	Half Size mSATA x 1	2G DDR3L RAM Include	VGA x 1	WiFi	Panel Mount/ VESA 75/ Stand	DC 12V	0°C ~ 50°C (w/o airflow) -3°F ~ 131°F (-5°C ~ 55°C) (w/ airflow)	Projected Capacitive multi-touch (2-point)
ACP-1074HTT-B3-1013	7" TFT-LCD	1024 x 600	320 cd/m ²	150°(H)/145°(V)	20,000	Intel® N2807, 1.58 GHz	2	1	3	—	2	Half Size mSATA x 1	2G DDR3L RAM Include	VGA x 1	WiFi	Panel Mount/ VESA 75/ Stand	DC 12V	0°C ~ 50°C (w/o airflow) -3°F ~ 131°F (-5°C ~ 55°C) (w/ airflow)	Projected Capacitive multi-touch (2-point)

Packing List

- 125530060Y
Lockable Power Adapter
- 1700090156 x 2
RJ-45 to COM Cable
- VESA Mount Kit
- Panel Mount Kit
- VESA Screws
- ACP-1074

Optional Accessories

- 1702031802
Power Cord (US Type)
- 1702031803
Power Cord (European Type)
- 170203180E
Power Cord (Japanese Type)
- M041073020
Stand Kit

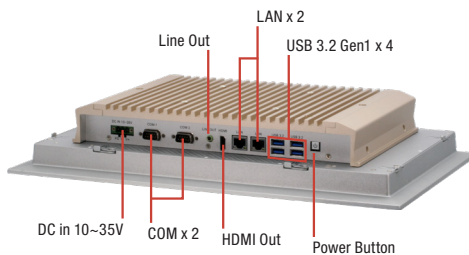
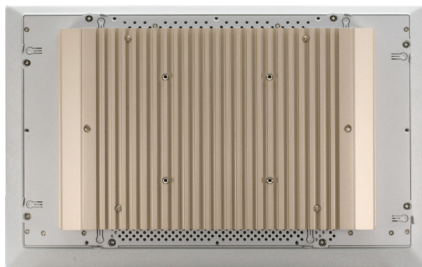
Half Size mSATA Storage Device:

- 968C008G1M
(TF)Half-sized, mSATA SSD, MLC, -40°C ~ +85°C
- 968C008G1M
(TF)Half-sized, mSATA SSD, MLC, -40°C ~ +85°C
- AP-SS968C016G3N
(TF)Half-sized, 16 GB, mSATA SSD, MLC, -40°C ~ +85°C
- 968C032G3Q
(TF)Half-sized, 32 GB, mSATA SSD, MLC, -40°C ~ +85°C
- AP-SS9C1064G003
(TF)Half-sized, 64 GB, mSATA SSD, MLC, -40°C ~ +85°C
- AP-SS968C128G1V
(TF)Half-sized, 128 GB, mSATA SSD, MLC, -40°C ~ +85°C
- 9C1060G002
(TF)Half-size, 60GB.mSATA SSD, 3D TLC, -40°C~85°C
- 9C1120G002
(TF)Half-size,120GB.mSATA SSD, 3D TLC,-40°C~85°C
- 9C1240G001
(TF)Half-size, 240GB.mSATA SSD, 3D TLC, -40°C~85°C

Note: AAEON factory-installed mSATA HDD is strongly recommended.

OMNI-2155-CML

15.6" HMI Panel PC with 10th Generation Intel® Core™ / Celeron® Processor



Features

- 15.6" (1366 x 768) TFT LCD Display
- Extreme Computing Power & Graphic Display Capability
- DDR4 slot x 2, up to 64GB
- Support High Speed NVMe storage (M.2 2280)
- GbE LAN x 2, RS232/422/485 x 2
- USB 3.2 Gen2 x 4
- Supports Intel® AMT
- Wide Range 10-35V DC input
- 0 ~ 45°C Operating Temperature

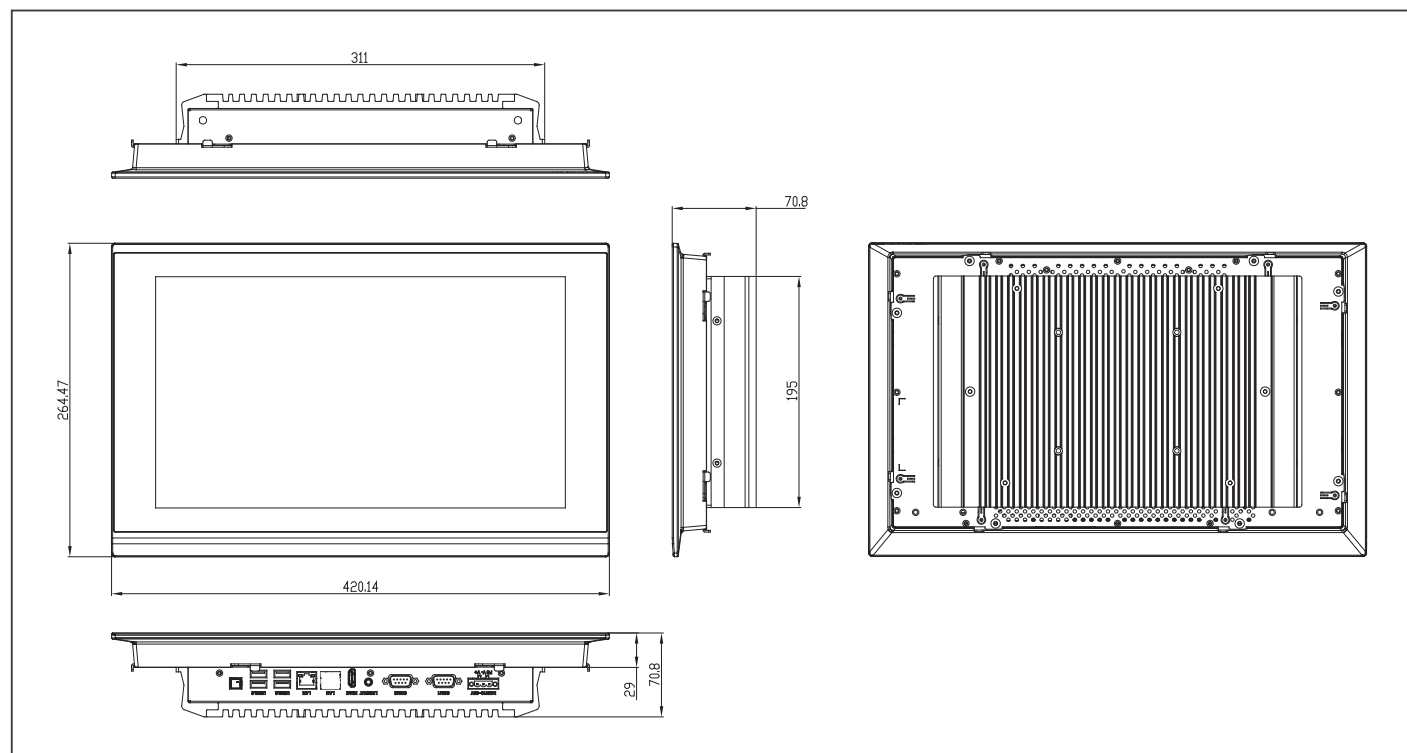


Specifications

System	
Processor	Intel® Core™ i9-10900TE Intel® Core™ i7-10700TE Intel® Core™ i5-10500TE Intel® Core™ i3-10100TE Intel® Celeron® G5900TE
System Memory	DDR4 S0-DIMM x 2, up to 64GB
LCD/CRT Controller	—
Ethernet	Intel® i211 x 1, i219 x 1
I/O Port	USB 3.2 Gen 2 x 4 RJ-45 x 2 for GbE LAN (i211-AT x 1, i219-LM x 1) HDMI x 1 Line out x 1 DB-9 x 2 for RS-232/422/485 3 pin 10~35V Power Input x 1 Power Button with LED x 1
Storage Disk Drive	M.2 2280 slot x 1 (PCIex4), 2.5" SATA SSD/HDD bay x 1
Expansion Slot	M.2 2230 E Key x 1, M.2 2280 B Key x 1 Full-Size Mini Card x 1 (mSATA/PCIe switch by BIOS, default PCIe), SIM x 1
OS Support	Windows® 10 IoT Enterprise 64-bit, Linux Ubuntu 20.04
Mechanical	
Construction	Aluminum Design (IP65 Front Frame)
Mounting	VESA 100 / Panel Mount
Dimension	420.14mm x 264.47mm x 73.2 mm
Carton Dimension	530mm x 445mm x 200mm
Gross Weight	6.75 kg
Environmental	
Operating Temperature	32°F ~ 113°F (0°C ~ 45°C) (35W CPU), according to IEC68-2-14 with 0.5 m/s AirFlow
Storage Temperature	-4°F ~ 158°F (-20°C ~ 70°C)
Storage Humidity	90% @40°C; non-condensing
Vibration	1 Grms/ 5~500Hz/random operation
Shock	15 G peak acceleration (11 msec. duration)
EMC	CE/FCC class A
Power Supply	
DC input	10-35V DC-in with 3-pin terminal block
LCD	
Display Type	15.6" TFT-LCD, LED
Max Resolution	1366 (H) x 768 (V)
Max. Colors	16.7M (8 bit/color)
Luminance	400 cd/m²
Viewing Angle	170° (H), 130° (V)
Back Light	LED
Back Light MTBF (Hours)	50,000
Touchscreen	
Type	Flat 5-wire Resistive / P-CAP Multi Touch
Light Transmission	80% ± 3% / 88% ± 2%

Dimension

Unit: mm



Ordering Information

Part Number	Display Type	Max Resolution	Luminance	View Angle	Backlight MTBF (Hours)	CPU	LAN	USB 2.0	USB 3.2 Gen 2	RS-232	RS-485/422/232	Storage	RAM	Display	Expansion	Mounting	Power	Temp.	Touch
OMNI-2155HTT-CML-A2-1010	15.6" TFT LCD	1366 x 768	400 cd/m ²	170°(H) 130°(V)	50,000	Intel® Core™ i9-10900TE Intel® Core™ i7-10700TE Intel® Core™ i5-10500TE Intel® Core™ i3-10100TE Intel® Celeron® G5900TE	2	—	4	—	2	M.2 2280 slot x 1 (PCIe4), 2.5" SATA SSD/HDD bay x 1	DDR4 SO-DIMM x 2, up to 64GB	HDMI x 1	M.2 2230 E Key x 1 Full-Size Mini Card x 1	VESA 100 / Panel Mount	10-35V DC-in with 3-pin terminal block	0°C ~ 45°C with 0.5m/s airflow	Projected Capacitive multitouch

Packing List

- Phoenix Power Connector x 1
- OMNI-2155-CML x 1

Optional Accessories

- **AP-OT9789LA1000**
LCD Monitor Stand 230mm, LA-100
- **1702031802**
Power Cord (US Type)
- **1702031803**
Power Cord (European Type)
- **170203180E**
Power Cord (Japanese Type)
- **125590120B**
120W Power Adapter
- **1255302300**
230W Power Adapter

ACP-1105 PRELIMINARY

10.1" WXGA Open-frame Panel PC with PICO-APL3

Launching in Q1

Features

- 10.1" WXGA (1280 x 800) Color TFT LCD Display
- PICO-APL3
- Projected Capacitive Touch Screen
- Fanless System
- Onboard DDR3L 2GB (Optional to 4GB)
- OnBoard Storage eMMC 32GB (Optional to 16GB/64GB)
- LAN x1, COM x1, USB 3.2 Gen1 Type A x2, USB 2.0 x1
- HDMI x1
- M.2 B Key (2280) x 1, M.2 E Key (2230) x 1
- DC 12V



System	
Processor	Intel® Pentium® N4200/ Celeron® N3350/ Atom™ Processor SoC
System Memory	LPDDR4 2GB/4GB (Optional)
LCD/CRT controller	—
Ethernet	10/100/1000 Base TX x1
I/O Port	LAN x1 COM x1 USB 3.2 Gen 1 x2 USB 2.0 x1 HDMI x1
Storage Disk Drive	Onboard 32GB eMMC(16 GB/64GB Optional)
Expansion Slot	M.2 B Key (2280) x 1, M.2 E Key (2230) x 1
OS support	Windows 10(64 Bit)
Mechanical	
Construction	SECC
Mounting	—
Dimension	TBD
Carton Dimension	TBD
Gross Weight	TBD
Environmental	
Operating Temperature	32°F~104°F (0°C ~ 40°C) with 0.5 m/s airflow
Storage Temperature	32°F~113°F(0°C~45°C)
Storage Humidity	90% @40°C; non-condensing
Vibration	—
Shock	—
EMC	—
Power Supply	
DC Input	DC 12V
LCD	
Display Type	10.1" WXGA (1280 x 800) Color TFT LCD Display
Max Resolution	1280 x 800
Max. Colors	262K colors (6 bit for R,G,B)
Luminance	300 nits
Viewing Angle	170° (H) ; 170° (V)
Back Light	LED
Back Light MTBF (Hours)	25,000 Hrs
Touchscreen	
Type	Projected Capacitive Multi-Touch
Light Transmission	90%

Optional Accessories

- TBD

Packing List

- TBD

Ordering Information

- TBD

Launching in Q1

Features

- 7" WSVGA (1024 x 600) Color TFT LCD Display
- RICO-3568
- Projected Capacitive Touch Screen
- IP65 Compliant Aluminum Front Bezel
- Fanless System
- VESA/Panel Mount Support
- LAN x2, COM x2, USB 3.2 Gen1 Type A x2, USB 2.0 x2
- USB 3.2 Gen1 Type C x1
- HDMI x1, Audio x1
- Full Size Mini Card Expansion Slot x1
- DC 9~36V



Giga LAN



USB 2.0



USB 3.2 Gen 1



Full-Size Mini Card



Wide Voltage



System	
Processor	RockChipRK3568 ARM Cortex™-A55 Quad-core
System Memory	LPDDR4 2GB/4GB (Optional)
LCD/CRT controller	—
Ethernet	10/100/1000 Base TX x2
I/O Port	LAN x2 COM x2 USB 3.2 Gen 1 Type C OTG x 1 (For System Recovery) USB 3.2 Gen 1 x2 USB 2.0 x2 HDMI x 1 Audio x1
Storage Disk Drive	16GB eMMC and Micro-SD card
Expansion Slot	Full-size mini-PCIe slot x 1 (PCIe 3.0 x 1 or mSATA)
OS support	Android 12 / Debian
Mechanical	
Construction	Aluminum Front Bezel + Metal Chassis
Mounting	VESA / Panel Mount
Dimension	TBD
Carton Dimension	TBD
Gross Weight	TBD
Environmental	
Operating Temperature	-5°C ~ 50°C with 0.5 m/s airflow
Storage Temperature	-20°C~60°C
Storage Humidity	90% @40°C; non-condensing
Vibration	1Grms / 5~ 500Hz / operation
Shock	15 G peak acceleration (11 msec. duration)
EMC	CE/FCC Class A Compatible
Power Supply	
DC Input	DC 9~36V
LCD	
Display Type	7" WSVGA (1024 x 600) Color TFT LCD Display
Max Resolution	1024 x 600
Max. Colors	16.7M
Luminance	320 nits
Viewing Angle	145° (H) ; 150° (V)
Back Light	LED
Back Light MTBF (Hours)	20,000 Hrs
Touchscreen	
Type	Projected Capacitive Multi-Touch
Light Transmission	90%

Optional Accessories

- TBD

Packing List

- TBD

Ordering Information

- TBD

ACP-1075 PRELIMINARY

7" WSVGA Open-frame Panel PC with PICO-APL3

Launching in Q1

Features

- 7" WSVGA (1024 x 600) Color TFT LCD Display
- PICO-APL3
- Projected Capacitive Touch Screen
- Fanless System
- Onboard DDR3L 2GB (Optional to 4GB)
- OnBoard Storage eMMC 32GB (Optional to 16GB/64GB)
- LAN x1, COM x1, USB 3.2 Gen1 Type A x2, USB 2.0 x1
- HDMI x1
- M.2 B Key (2280) x 1, M.2 E Key (2230) x 1
- DC 12V



Giga LAN



USB 2.0



USB 3.2 Gen 1



HDMI



M.2



System	
Processor	Intel® Pentium® N4200/ Celeron® N3350/ Atom™ Processor SoC
System Memory	LPDDR4 2GB/4GB (Optional)
LCD/CRT controller	—
Ethernet	10/100/1000 Base TX x1
I/O Port	LAN x1 COM x1 USB 3.2 Gen 1 x2 USB 2.0 x1 HDMI x1
Storage Disk Drive	Onboard 32GB eMMC(16 GB/64GB Optional)
Expansion Slot	M.2 B Key (2280) x 1, M.2 E Key (2230) x 1
OS support	Windows 10(64 Bit)
Mechanical	
Construction	SECC
Mounting	—
Dimension	TBD
Carton Dimension	TBD
Gross Weight	TBD
Environmental	
Operating Temperature	32°F~104°F (0°C ~ 40°C) with 0.5 m/s airflow
Storage Temperature	32°F~113°F(0°C~45°C)
Storage Humidity	90% @40°C; non-condensing
Vibration	—
Shock	—
EMC	—
Power Supply	
DC Input	DC 12V
LCD	
Display Type	7" WSVGA (1024 x 600) Color TFT LCD Display
Max Resolution	1024 x 600
Max. Colors	16.7M
Luminance	320 nits
Viewing Angle	145° (H) ; 150° (V)
Back Light	LED
Back Light MTBF (Hours)	20,000 Hrs
Touchscreen	
Type	Projected Capacitive Multi-Touch
Light Transmission	90%

Optional Accessories

- TBD

Packing List

- TBD

Ordering Information

- TBD

Note: All specifications are subject to change without notice.

Focus • Agility • Competitiveness

05

05

OMNI Series : Modular Builder

Refer to the product introduction on page 00-25
to learn how to order



OMNI-215D

15.6" OMNI Modular Touch/ LCD Panel Kit



Features

- 15.6" (1366 x 768) OMNI Modular Touch/ LCD Kit
- Supports Projected Capacitive Multi Touch or Resistive Touch Screen
- IP65 Compliant Aluminum Front Bezel

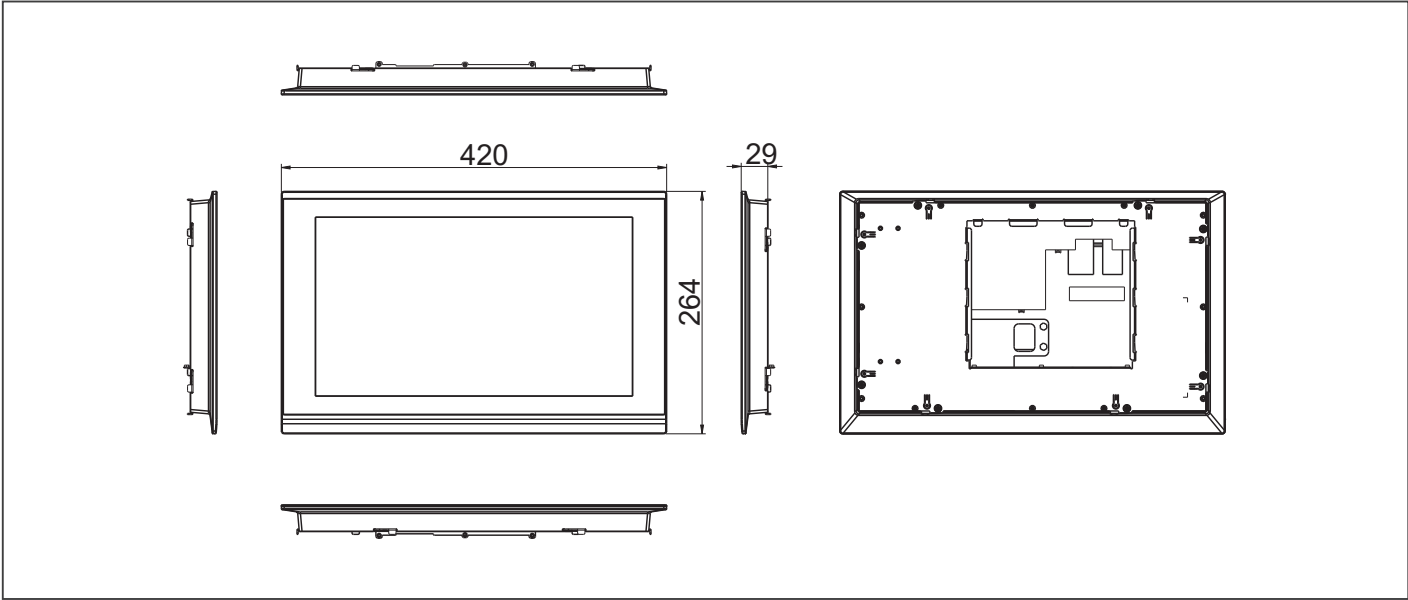


Specifications

Mechanical	
Construction	Aluminum Front Bezel
Mounting	Panel Mount
Dimension	16.54" x 10.39" x 1.14" (420mm x 264mm x 29mm)
Carton Dimension	20.47" x 17.13" x 7.09" (520mm x 435mm x 180mm)
Gross Weight	11 lb (5 kg)
Environmental	
Operating Temperature	14°F ~ 131°F (-10°C ~ 55°C) with 0.5 m/s airflow
Storage Temperature	-4°F ~ 158°F (-20°C ~ 70°C)
Storage Humidity	90% @40°C; non-condensing
Vibration	1 Grms/ 5 ~ 500Hz/ operation – with HDD
Shock	15G peak acceleration (11 msec. duration) – with HDD
EMC	CE/FCC Class A
Power Supply	
DC input	—
LCD	
Display Type	15.6" TFT-LCD, LED
Max Resolution	1366 x 768
Max. Colors	16.2M colors
Luminance	400 cd/m ²
Viewing Angle	160° (H), 140° (V)
Back Light	LED
Back Light MTBF (hours)	50,000
Touch Screen	
Type	P-CAP/ Full-flap resistive
Light Transmission	90%
Others	1. Connect with OMNI-Box Kit 2. Connect with LVDS/USB Type Touch

Dimension

Unit: mm



Ordering Information

Part Number	Display Type	Max Resolution	Luminance	View Angle	Backlight MTBF (Hours)	Temp.	Touch	Other
OMNI-215DHTT-KIT-A1-1011	15.6" TFT-LCD	1366 x 768	400 cd/m ²	160(H), 140(V)	50,000	-10°C ~ 55°C	Full Flat Resistive Touch Screen	Support OMNI CPU BOX kit
OMNI-215DHTT-KIT-A2-1011	15.6" TFT-LCD	1366 x 768	400 cd/m ²	160(H), 140(V)	50,000	-10°C ~ 55°C	Projectitive Capacitive Touch	Support OMNI CPU BOX kit

OMNI-221D

21.5" OMNI Modular Touch/ LCD Panel Kit



Features

- 21.5" (1920 x 1080) OMNI Modular Touch/ LCD Kit
- Supports Projected Capacitive Multi Touch or Resistive Touch Screen
- IP65 Compliant Aluminum Front Bezel

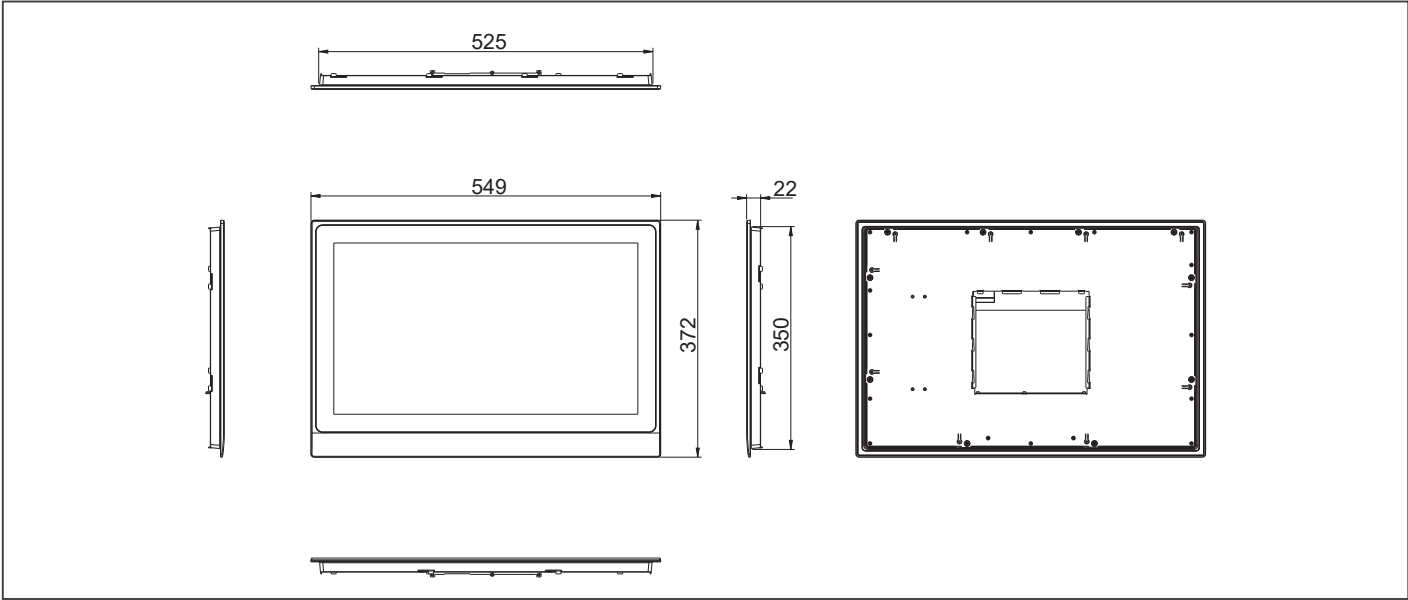


Specifications

Mechanical	
Construction	Aluminum Front Bezel
Mounting	Panel Mount
Dimension	21.61" x 14.65" x 0.87" (549mm x 372mm x 22mm)
Carton Dimension	26.38" x 7.87" x 20.67" (670mm x 200mm x 525mm)
Gross Weight	11 lb (5 kg)
Environmental	
Operating Temperature	14°F ~ 131°F (-10°C ~ 55°C) with 0.5 m/s airflow
Storage Temperature	-4°F ~ 158°F (-20°C ~ 70°C)
Storage Humidity	90% @40°C; non-condensing
Vibration	1 Grms/ 5~ 500Hz/ operation – with HDD
Shock	15G peak acceleration (11 msec. duration) – with HDD
EMC	CE/FCC Class A
Power Supply	
DC input	—
LCD	
Display Type	21.5" TFT-LCD, LED
Max Resolution	1920 x 1080
Max. Colors	16.7M colors
Luminance	250 cd/m ²
Viewing Angle	178° (H), 178° (V)
Back Light	LED
Back Light MTBF (hours)	50,000
Touch Screen	
Type	P-CAP/ Full-flap resistive
Light Transmission	90%
Others	1. Connect with OMNI-Box Kit 2. Connect with LVDS/USB Type Touch

Dimension

Unit: mm



Ordering Information

Part Number	Display Type	Max Resolution	Luminance	View Angle	Backlight MTBF (Hours)	Temp.	Touch	Other
OMNI-221DHTT-KIT-A1-1011	21.5" TFT-LCD	1920 x 1080	250 cd/m ²	178(H), 178(V)	50,000	-10°C ~ 55°C	Full Flat Resistive Touch Screen	Support OMNI CPU BOX kit
OMNI-221DHTT-KIT-A2-1012	21.5" TFT-LCD	1920 x 1080	250 cd/m ²	178(H), 178(V)	50,000	-10°C ~ 55°C	Projectitive Capacitive Touch	Support OMNI CPU BOX kit



Features

- 10.4" (800 x 600) OMNI Modular Touch/ LCD Kit
- Supports Projected Capacitive Multi Touch or Resistive Touch Screen
- IP65 Compliant Aluminum Front Bezel

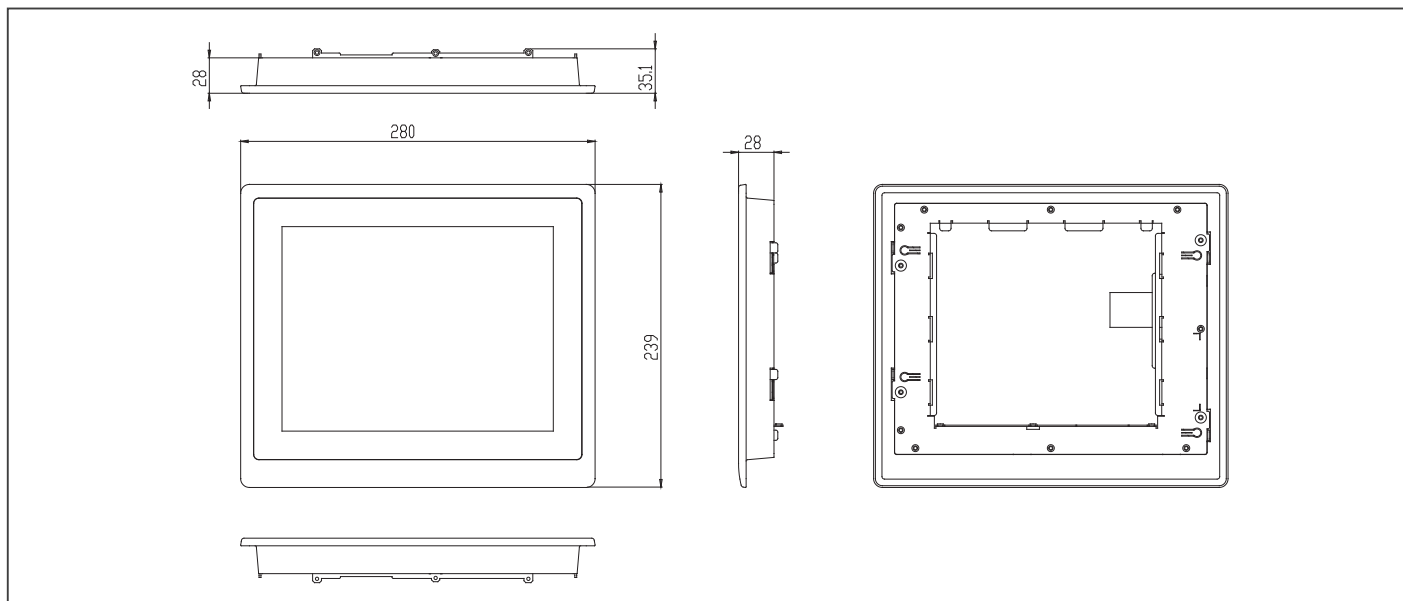


Specifications

Mechanical	
Construction	Aluminum Front Bezel
Mounting	Panel Mount
Dimension	11.02" x 9.41" x 1.1" (280mm x 239mm x 28mm)
Carton Dimension	16.34" x 7.05" x 15.39" (415mm x 179mm x 391mm)
Gross Weight	3.08 lb (1.4 kg)
Environmental	
Operating Temperature	14°F ~ 131°F (-10°C ~ 55°C) with 0.5 m/s airflow
Storage Temperature	-4°F ~ 158°F (-20°C ~ 70°C)
Storage Humidity	90% @40°C; non-condensing
Vibration	1 Grms/ 5~ 500Hz/ operation – with HDD
Shock	15G peak acceleration (11 msec. duration) – with HDD
EMC	CE/FCC Class A
Power Supply	
DC input	—
LCD	
Display Type	10.4" TFT-LCD, LED
Max Resolution	800 x 600
Max. Colors	16.2M colors
Luminance	230 cd/m ²
Viewing Angle	120° (H), 100° (V)
Back Light	LED
Back Light MTBF (hours)	50,000
Touch Screen	
Type	P-CAP/ Full-flap resistive
Light Transmission	90%
Others	1. Connect with OMNI-Box Kit 2. Connect with LVDS/ USB Type Touch

Dimension

Unit: mm



Ordering Information

Part Number	Display Type	Max Resolution	Luminance	View Angle	Backlight MTBF (Hours)	Temp.	Touch	Other
OMNI-310DHTT-KIT-A1-1011	10.4" TFT-LCD	800 x 600	230 cd/m ²	120(H), 100(V)	50,000	-10°C ~ 55°C	Full Flat Resistive Touch Screen	Support OMNI CPU BOX kit
OMNI-310DHTT-KIT-A2-1011	10.4" TFT-LCD	800 x 600	230 cd/m ²	120(H), 100(V)	50,000	-10°C ~ 55°C	Projectitive Capacitive Touch	Support OMNI CPU BOX kit



Features

- 12.1" (1024 x 768) OMNI Modular Touch/ LCD Kit
- Supports Projected Capacitive Multi Touch or Resistive Touch Screen
- IP65 Compliant Aluminum Front Bezel

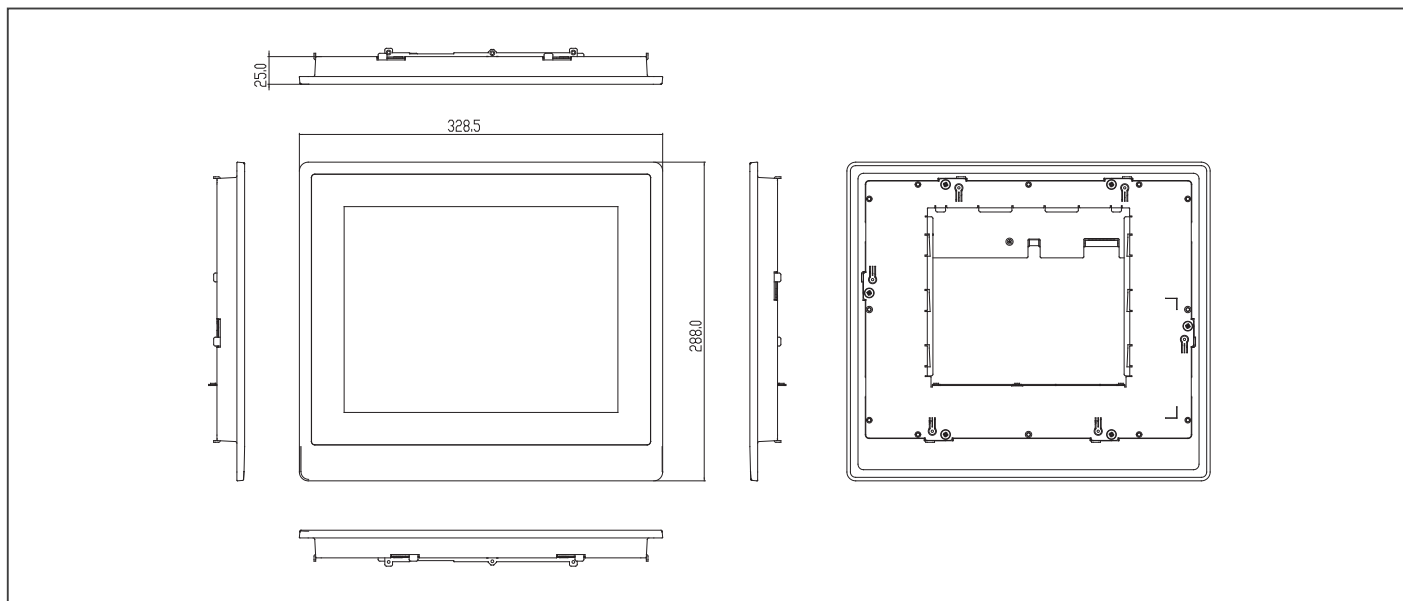


Specifications

Mechanical	
Construction	Aluminum Front Bezel
Mounting	Panel Mount
Dimension	12.95" x 11.34" x 0.98" (329mm x 288mm x 25mm)
Carton Dimension	20.87" x 17.52" x 7.87" (530mm x 445mm x 200mm)
Gross Weight	4.4 lb (2 kg)
Environmental	
Operating Temperature	14°F ~ 131°F (-10°C ~ 55°C) with 0.5 m/s airflow
Storage Temperature	-4°F ~ 158°F (-20°C ~ 70°C)
Storage Humidity	90% @40°C; non-condensing
Vibration	1 Grms/ 5~ 500Hz/ operation – with HDD
Shock	15G peak acceleration (11 msec. duration) – with HDD
EMC	CE/FCC Class A
Power Supply	
DC input	—
LCD	
Display Type	12.1" TFT-LCD, LED
Max Resolution	1024 x 768
Max. Colors	16.2M colors
Luminance	500 cd/m ²
Viewing Angle	160° (H), 160° (V)
Back Light	LED
Back Light MTBF (hours)	50,000
Touch Screen	
Type	P-CAP/ Full-flap resistive
Light Transmission	90%
Others	1. Connect with OMNI-Box Kit 2. Connect with LVDS/USB Type Touch

Dimension

Unit: mm



Ordering Information

Part Number	Display Type	Max Resolution	Luminance	View Angle	Backlight MTBF (Hours)	Temp.	Touch	Other
OMNI-312DHTT-KIT-A1-1011	12.1" TFT-LCD	1024 x 768	500 cd/m ²	160(H), 160(V)	50,000	-10°C ~ 55°C	Full Flat Resistive Touch Screen	Support OMNI CPU BOX kit
OMNI-312DHTT-KIT-A2-1011	12.1" TFT-LCD	1024 x 768	500 cd/m ²	160(H), 160(V)	50,000	-10°C ~ 55°C	Projectitive Capacitive Touch	Support OMNI CPU BOX kit



Features

- 15" (1024 x 768) OMNI Modular Touch/ LCD Kit
- Supports Projected Capacitive Multi Touch or Resistive Touch Screen
- IP65 Compliant Aluminum Front Bezel

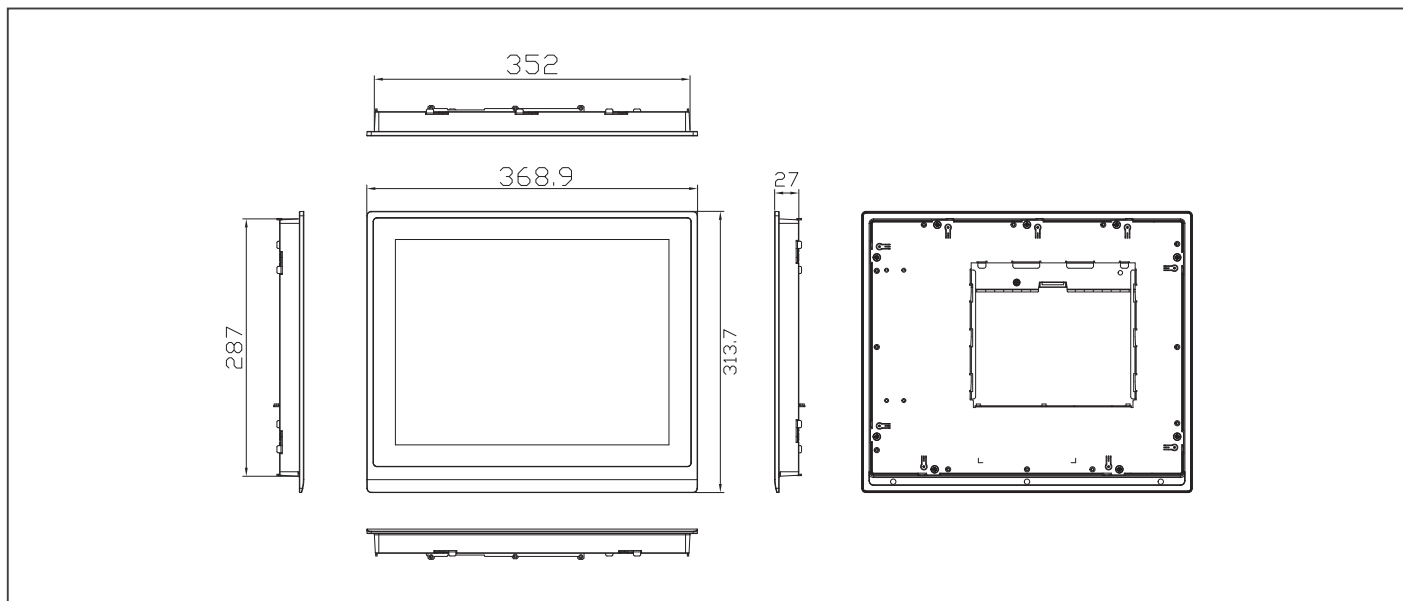


Specifications

Mechanical	
Construction	Aluminum Front Bezel
Mounting	Panel Mount
Dimension	14.53" x 12.36" x 1.06" (369mm x 314mm x 27mm)
Carton Dimension	20.08" x 9.84" x 18.11" (510mm x 250mm x 460mm)
Gross Weight	11.66 lb (5.3 kg)
Environmental	
Operating Temperature	14°F ~ 131°F (-10°C ~ 55°C) with 0.5 m/s airflow
Storage Temperature	-4°F ~ 158°F (-20°C ~ 70°C)
Storage Humidity	90% @40°C; non-condensing
Vibration	1 Grms/ 5~ 500Hz/ operation – with HDD
Shock	15G peak acceleration (11 msec. duration) – with HDD
EMC	CE/FCC Class A
Power Supply	
DC input	—
LCD	
Display Type	15" TFT-LCD, LED
Max Resolution	1024 x 768
Max. Colors	16.2M (8bit/color)
Luminance	300 cd/m ²
Viewing Angle	176° (H), 176° (V)
Back Light	LED
Back Light MTBF (hours)	70,000
Touch Screen	
Type	P-CAP/ Full-flap resistive
Light Transmission	90%
Others	1. Connect with OMNI-Box Kit 2. Connect with LVDS/USB Type Touch

Dimension

Unit: mm



Ordering Information

Part Number	Display Type	Max Resolution	Luminance	View Angle	Backlight MTBF (Hours)	Temp.	Touch	Other
OMNI-315DHTT-KIT-A1-1012	15" TFT-LCD	1024 x 768	300 cd/m ²	176° (H), 176° (V)	70,000	-10°C ~ 55°C	Full Flat Resistive Touch Screen	Support OMNI CPU BOX kit
OMNI-315DHTT-KIT-A2-1012	15" TFT-LCD	1024 x 768	300 cd/m ²	176° (H), 176° (V)	70,000	-10°C ~ 55°C	Projectitive Capacitive Touch	Support OMNI CPU BOX kit



Features

- 17" (1280 x 1024) MNI Modular Touch/ LCD Kit
- Supports Projected Capacitive Multi Touch or Resistive Touch Screen
- IP65 Compliant Aluminum Front Bezel

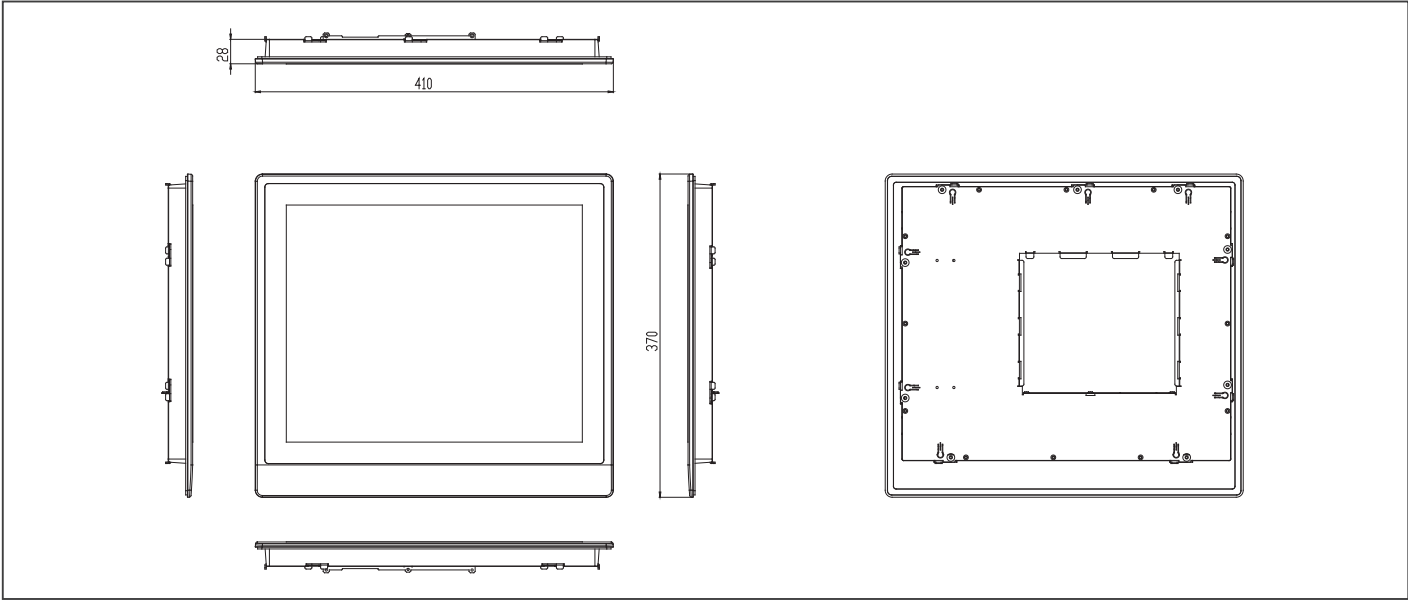


Specifications

Mechanical	
Construction	Aluminum Front Bezel
Mounting	Panel Mount
Dimension	16.14" x 14.57" x 1.1" (410mm x 370mm x 28mm)
Carton Dimension	20.47" x 10.32" x 19.29" (522mm x 262mm x 490mm)
Gross Weight	8.8 lb(4 kg)
Environmental	
Operating Temperature	14°F ~ 131°F (-10°C ~ 55°C) with 0.5 m/s airflow
Storage Temperature	-4°F ~ 158°F (-20°C ~ 70°C)
Storage Humidity	90% @40°C; non-condensing
Vibration	1 Grms/ 5~ 500Hz/ operation – with HDD
Shock	15G peak acceleration (11 msec. duration) – with HDD
EMC	CE/FCC Class A
Power Supply	
DC input	—
LCD	
Display Type	17" TFT-LCD, LED
Max Resolution	1280 x 1024
Max. Colors	16.7M colors
Luminance	350 cd/m ²
Viewing Angle	170° (H), 160° (V)
Back Light	LED
Back Light MTBF (hours)	50,000
Touch Screen	
Type	P-CAP/ Full-flap resistive
Light Transmission	90%
Others	1. Connect with OMNI-Box Kit 2. Connect with LVDS/USB Type Touch

Dimension

Unit: mm



Ordering Information

Part Number	Display Type	Max Resolution	Luminance	View Angle	Backlight MTBF (Hours)	Temp.	Touch	Other
OMNI-317DHTT-KIT-A1-1012	17" TFT-LCD	1280 x 1024	350 cd/m ²	170(H), 160(V)	50,000	-10°C ~ 55°C	Full Flat Resistive Touch Screen	Support OMNI CPU BOX kit
OMNI-317DHTT-KIT-A2-1011	17" TFT-LCD	1280 x 1024	350 cd/m ²	170(H), 160(V)	50,000	-10°C ~ 55°C	Projectitive Capacitive Touch	Support OMNI CPU BOX kit



Features

- 19" (1280 x 1024) OMNI Modular Touch/ LCD Kit
- Supports Projected Capacitive Multi Touch or Resistive Touch Screen
- IP65 Compliant Aluminum Front Bezel

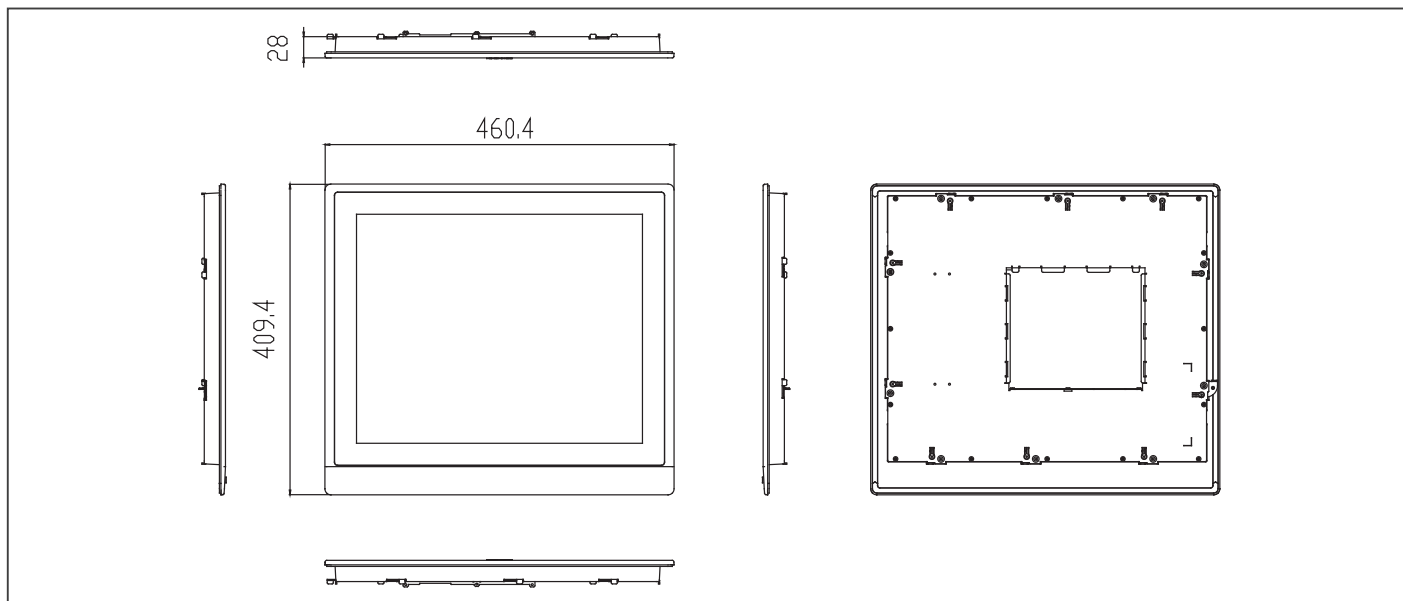


Specifications

Mechanical	
Construction	Aluminum Front Bezel
Mounting	Panel Mount
Dimension	18.13" x 16.12" x 1.1" (460.4mm x 409.4mm x 28mm)
Carton Dimension	26.02" x 8.11" x 19.53" (661mm x 206mm x 496mm)
Gross Weight	11 lb (5 kg)
Environmental	
Operating Temperature	14°F ~ 131°F (-10°C ~ 55°C) with 0.5 m/s airflow
Storage Temperature	-4°F ~ 158°F (-20°C ~ 70°C)
Storage Humidity	90% @40°C; non-condensing
Vibration	1 Grms/ 5~ 500Hz/ operation – with HDD
Shock	15G peak acceleration (11 msec. duration) – with HDD
EMC	CE/FCC Class A
Power Supply	
DC input	—
LCD	
Display Type	19" TFT-LCD, LED
Max Resolution	1280 x 1024
Max. Colors	16.7M colors
Luminance	350 cd/m ²
Viewing Angle	170° (H), 160° (V)
Back Light	LED
Back Light MTBF (hours)	50,000
Touch Screen	
Type	P-CAP/ Full-flap resistive
Light Transmission	90%
Others	1. Connect with OMNI-Box Kit 2. Connect with LVDS/USB Type Touch

Dimension

Unit: mm

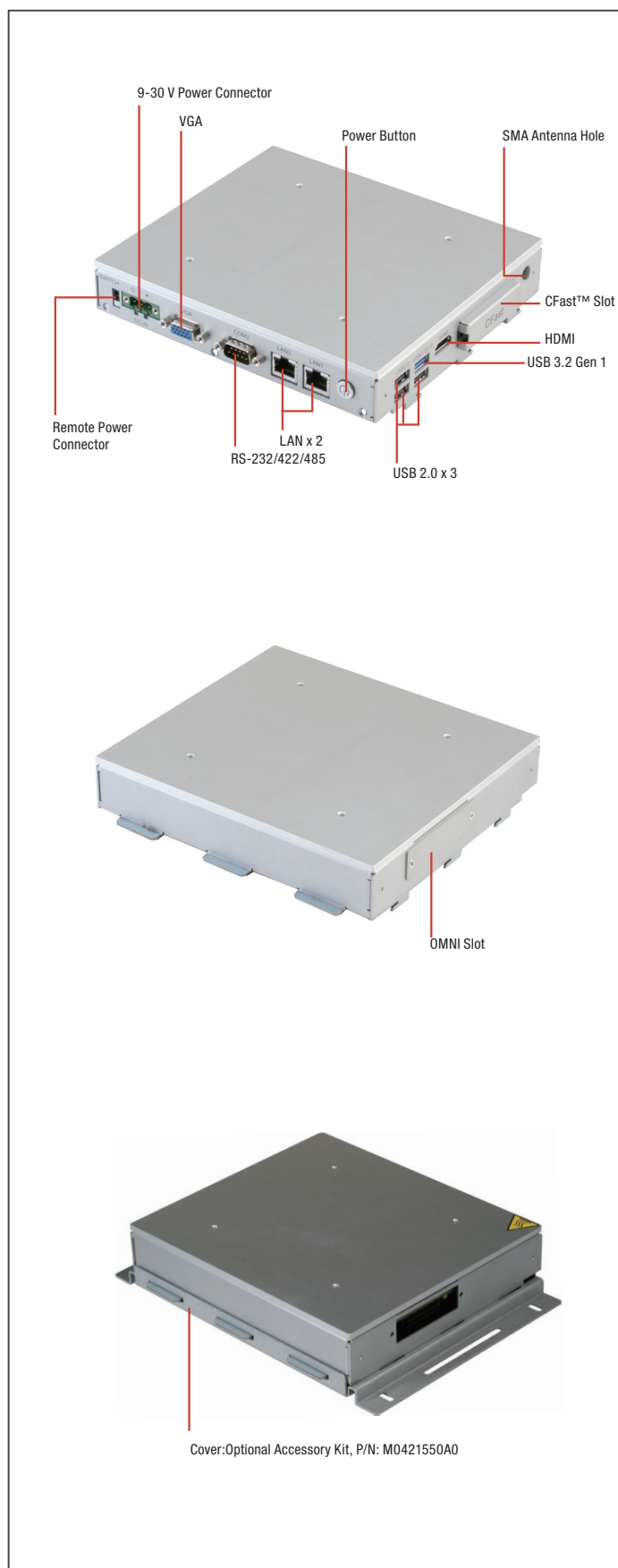


Ordering Information

Part Number	Display Type	Max Resolution	Luminance	View Angle	Backlight MTBF (Hours)	Temp.	Touch	Other
OMNI-319DHTT-KIT-A1-1012	19" TFT-LCD	1280 x 1024	350 cd/m ²	170(H), 160(V)	50,000	-10°C ~ 55°C	Full Flat Resistive Touch Screen	Support OMNI CPU BOX kit
OMNI-319DHTT-KIT-A2-1011	19" TFT-LCD	1280 x 1024	350 cd/m ²	170(H), 160(V)	50,000	-10°C ~ 55°C	Projectitive Capacitive Touch	Support OMNI CPU BOX kit

OMNI-BT CPU BOX Kit

OMNI Series Modules- CPU BOX Kit



Features

- Intel® N2807/J1900 Processor
- Aluminum Design
- Fanless Operation
- Easily Expandable I/O by AAEON OMNI I/O Modules

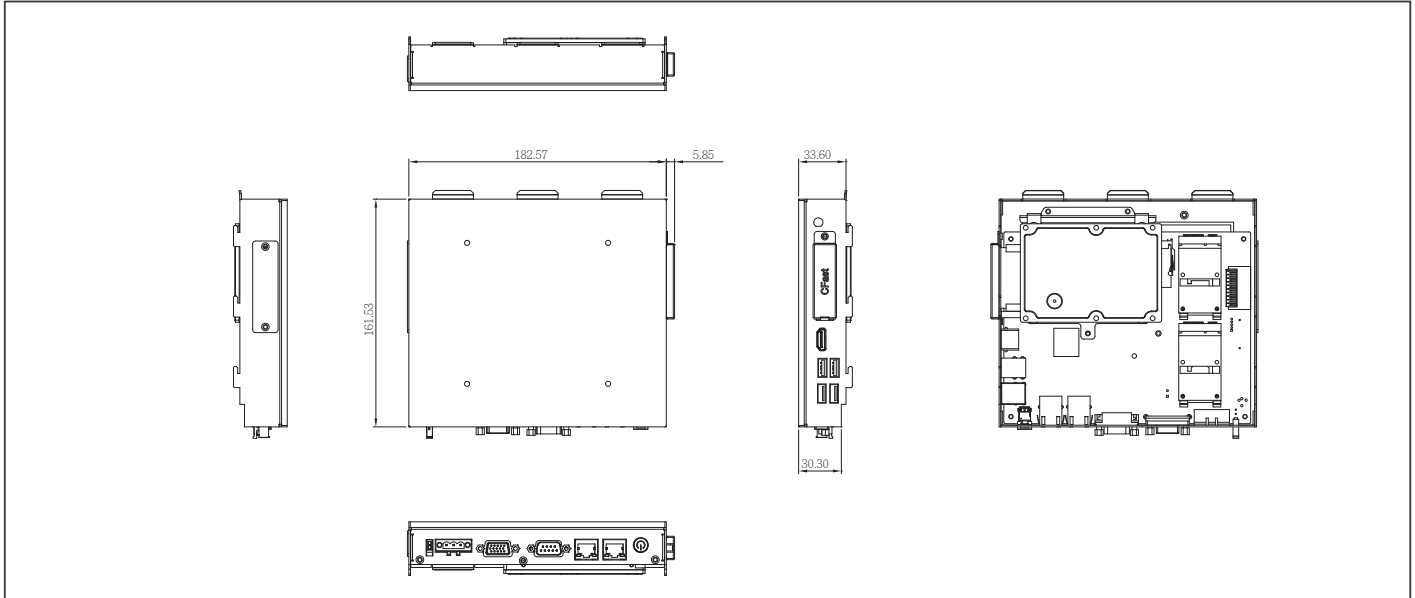


Specifications

System	
Processor	Intel® N2807 processor, 1.58 GHz Intel® Celeron® J1900 processor, 2 GHz
System Memory	204-pin DDR3L 1333MHz SODIMM x 1, up to 8 GB, (J1900) 204-pin DDR3L 1333MHz SODIMM x 1, up to 4 GB, (N2807)
LCD CRT Controller	Integrated in processor
Ethernet	Intel® I211, 10/100/1000 Base-TX x 2
I/O Port	USB 2.0 Type A x 3 USB 3.2 Gen 1 Type A x 1 SMA Antenna hole x 1 HDMI x 1 CFast™ x 1 DB-9 x 1 for RS-232/422/485 RJ-45 x 2 for 10/100/1000 Base-TX DB-15 x 1 for VGA 3-pin terminal block x 1 for 9~30 Vdc power input LED Power on/off switch x 1 (Power on = Orange, Power off =N/A)
Storage Disk Drive	CFast™ x 1, 2.5" SATA HDD bay x 1
Expansion Slot	Mini card x 2 (Full size x 2) SIM card x 1 OMNI I/O connector x 1
OS Support	Windows® 7, Windows® 8, Windows® 10, Linux Kernel 2.6.x or higher
Construction	Aluminum design
Mounting	Wallmount
Dimension	7.2" x 6.38" x 1.1" (183mm x 162mm x 28mm)
Gross Weight	3.96 lb (1.8 kg)
Operating Temperature	14°F ~ 131°F (-10°C ~ 55°C) (J1900) 14°F ~ 140°F (-10°C ~ 60°C) (N2807) with 0.5 m/s airflow (CF & HDD)
Storage Temperature	-4°F ~ 158°F (-20°C ~ 70°C)
Storage Humidity	90% @40°C; non-condensing
Anti Vibration	1 Grms/ 5~ 500Hz/ operation – with HDD
Anti-Shock	15 G peak acceleration (11 msec. duration) – HDD
Certification	CE/FCC class A
DC Input	DC 9 (min.) ~ 30 (max.) V w/3-pin terminal block, ATX Power function
Display Type	HDMI x 1, VGA
Others	Box Bottom Chassis Cover (optional): M0421550A0

Dimension

Unit: mm



Ordering Information

Part Number	CPU	LAN	USB 3.2 Gen 1	USB 2.0	RS-232	RS-232/422/485	Storage	RAM	Display	Expansion	Power	Operating Temp.
OMNI-BT-KIT-A1-1010	Intel® Celeron® J1900, 2 GHz	2	1	3	—	1	CFast™ x 1 2.5" SATA HDD x 1	DDR3L, up to 8 GB	VGA x 1	Mini-Card x 2 (Full Size) OMNI Module	DC 9~30V	-10°C ~ 55°C with airflow
OMNI-BT-KIT-A2-1010	Intel® N2807, 1.58 GHz	2	1	3	—	1	CFast™ x 1 2.5" SATA HDD x 1	DDR3L, up to 4 GB	VGA x 1	Mini-Card x 2 (Full Size) OMNI Module	DC 9~30V	-10°C ~ 60°C with airflow

Packing List

- Phoenix Power Connector
- OMNI-BT CPU BOX Kit

Optional Accessories

- **AP-0T9789LA1000**
LCD monitor Stand 230mm, LA-100
- **1702031802**
Power Cord (US Type)
- **1702031803**
Power Cord (European Type)
- **M0421550A0**
OMNI BOX Bottom Cover
- **170203180E**
Power Cord (Japanese Type)
- **1255900849**
(TF)Adapter.AC/DC.Input 90V~264V.
Output 12V/84W.3p phoenix.FSP.FSP084-DHAN3(9NA0840718)
- **1700021500**
Remote Switch Cable, 150 cm

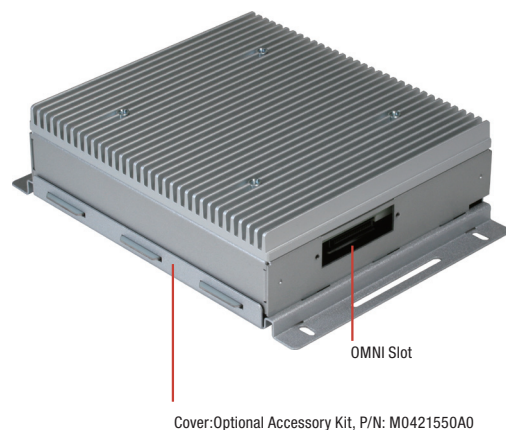
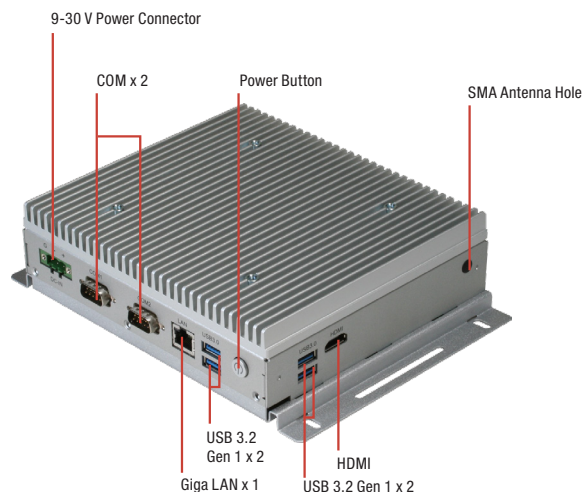
Wide Temperature DRAM

- **9761215500**
2GB Wide Temperature DRAM (-40°C ~ 95°C)
- **9761215501**
4GB Wide Temperature DRAM (-40°C ~ 95°C)
- **9761215502**
8GB Wide Temperature DRAM (-40°C ~ 95°C)

**Users should select the wide temperature DRAM above and use wide temperature storage devices if the OMNI panel pc is to be operated at over 40°C.

OMNI-SKU CPU-BOX Kit

OMNI Series Modules- CPU BOX Kit



Features

- Intel® Core™ i7-6600U, i5-6300U, i3-6100U, Celeron® 3995 Processor
- 10/100/1000 Base-TX RJ-45 Port x 1
- RS-232/422/485 x 2
- USB 3.2 Gen 1 x 4
- Aluminum Design
- Fanless Operation
- DC 9~30V

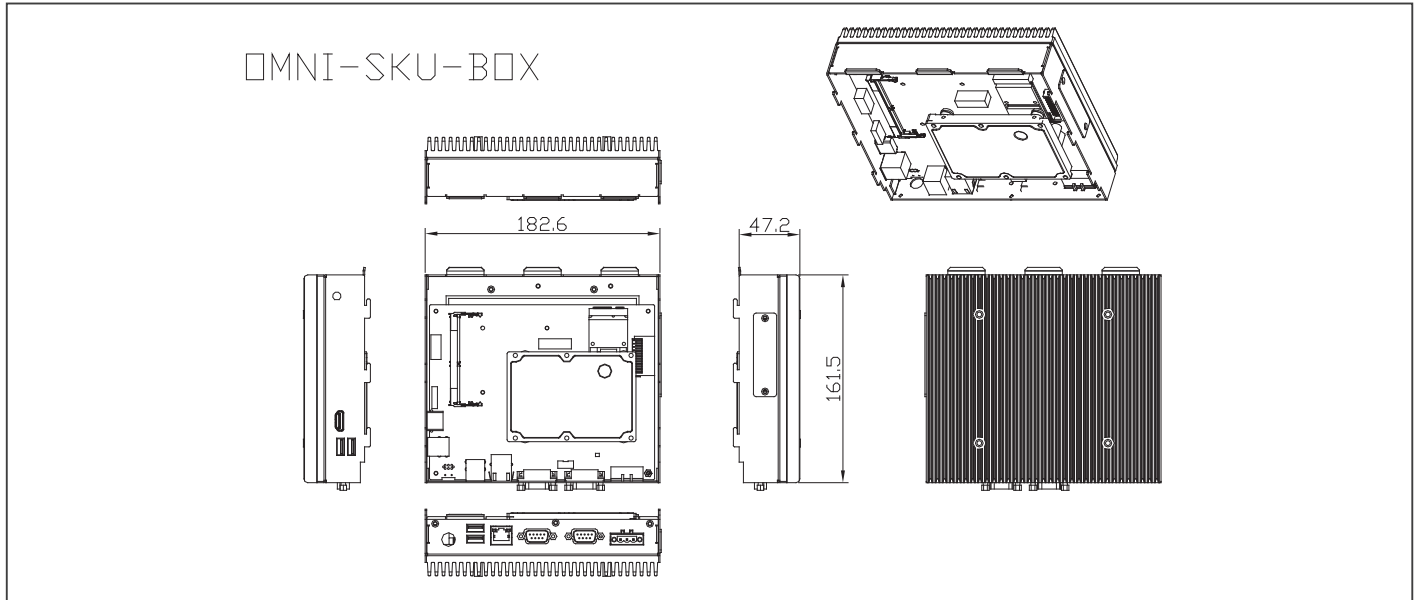


Specifications

System	
Processor	Intel® Core™ i7-6600U, i5-6300U, i3-6100U, Celeron® 3995 Processor
System Memory	260-pin DDR4 SODIMM x 1, Max. 16GB
LCD CRT Controller	Integrated in processor
Ethernet	Gigabit Ethernet, RJ-45 x 1
I/O Port	USB Type A x 4 for USB 3.2 Gen 1 RJ-45 x1 for GbE LAN DB-9 x 2 for RS-232, DB-9 x 1 for RS-232/422/485 Power input connector, Power ON/OFF Switch x 1, antenna hole HDMI x 1 3-pin terminal Power input x 1
Storage Disk Drive	2.5" SATA HDD bay x 1
Expansion Slot	Full size mini card x 1 SIM card x 1 OMNI I/O connector x 1
OS Support	Windows® 10 (64-bit), Linux kernel 2.6.3 or above
Construction	Aluminum design
Mounting	Wallmount (with optional Bottom cover: M0421550A0) / with OMNI-Panel Kits
Dimension	7.2" x 6.38" x 1.77" (183mm x 162mm x 45mm)
Gross Weight	3.96 lb (1.8 kg)
Operating Temperature	-4°F ~ 131°F (-20°C ~ 55°C)
Storage Temperature	-4°F ~ 158°F (-20°C ~ 70°C)
Storage Humidity	90% @40°C; non-condensing
Anti Vibration	1 Grms/ 5 ~ 500Hz/ operation – with HDD
Anti-Shock	15 G peak acceleration (11 msec. duration) – HDD
Certification	CE/FCC class A
DC Input	DC 9 (min.) ~ 30 (max.) V w/ 3-pin terminal block, ATX Power function
Display Type	HDMI x 1
Others	Box Bottom Chassis Cover (optional): M0421550A0

Dimension

Unit: mm



Ordering Information

Part Number	CPU	LAN	USB 3.2 Gen 1	USB 2.0	RS-232	RS-232/422/485	Storage	RAM	Display	Expansion	Mounting	Power	Operating Temp.
OMNI-SKU-KIT-A1-1110	Intel® i5-6300U Processor	1	4	—	—	2	2.5" SATA HDD x 1	DDR4, up to 16GB	HDMI x 1	Mini-Card x 1 (Full Size) OMNI Module	Wallmount	DC 9~30V	-20°C ~ 55°C with airflow
OMNI-SKU-KIT-A2-1110	Intel® C-3955U Processor	1	4	—	—	2	2.5" SATA HDD x 1	DDR4, up to 16GB	HDMI x 1	Mini-Card x 1 (Full Size) OMNI Module	Wallmount	DC 9~30V	-20°C ~ 55°C with airflow
OMNI-SKU-KIT-A3-1110	Intel® i7-6600U Processor	1	4	—	—	2	2.5" SATA HDD x 1	DDR4, up to 16GB	HDMI x 1	Mini-Card x 1 (Full Size) OMNI Module	Wallmount	DC 9~30V	-20°C ~ 55°C with airflow
OMNI-SKU-KIT-A4-1110	Intel® i3-6100U Processor	1	4	—	—	2	2.5" SATA HDD x 1	DDR4, up to 16GB	HDMI x 1	Mini-Card x 1 (Full Size) OMNI Module	Wallmount	DC 9~30V	-20°C ~ 55°C with airflow

Packing List

- Phoenix Power Connector
- OMNI-SKU CPU BOX Kit

Optional Accessories

- 1702031802
Power Cord (US Type)
- 1702031803
Power Cord (European Type)
- M0421550A0
OMNI BOX Bottom Cover
- 170203180E
Power Cord (Japanese Type)

OMNI-ADP-KIT CPU BOX

PRELIMINARY

OMNI Series Modules- CPU BOX Kit



Features

- OMNI-Panel Kit Support from 12 inches to 21.5 inches.
- Intel® Alder Lake-P i7/i5/i3/Celeron CPU (max. 15W TDP)
- Support M.2 PCIe x 4 SSD
- Support OMNI Series Flat 5-Wire Resistive / PCAP MultiTouch
- IP65 Stainless Front Bezel Design (The same bezel as OMNI using)
- Extreme Passive Cooling Operation
- VESA Mount/ Built-in Panel Mount Bracket
- 9 - 36V DC in a wide range of input

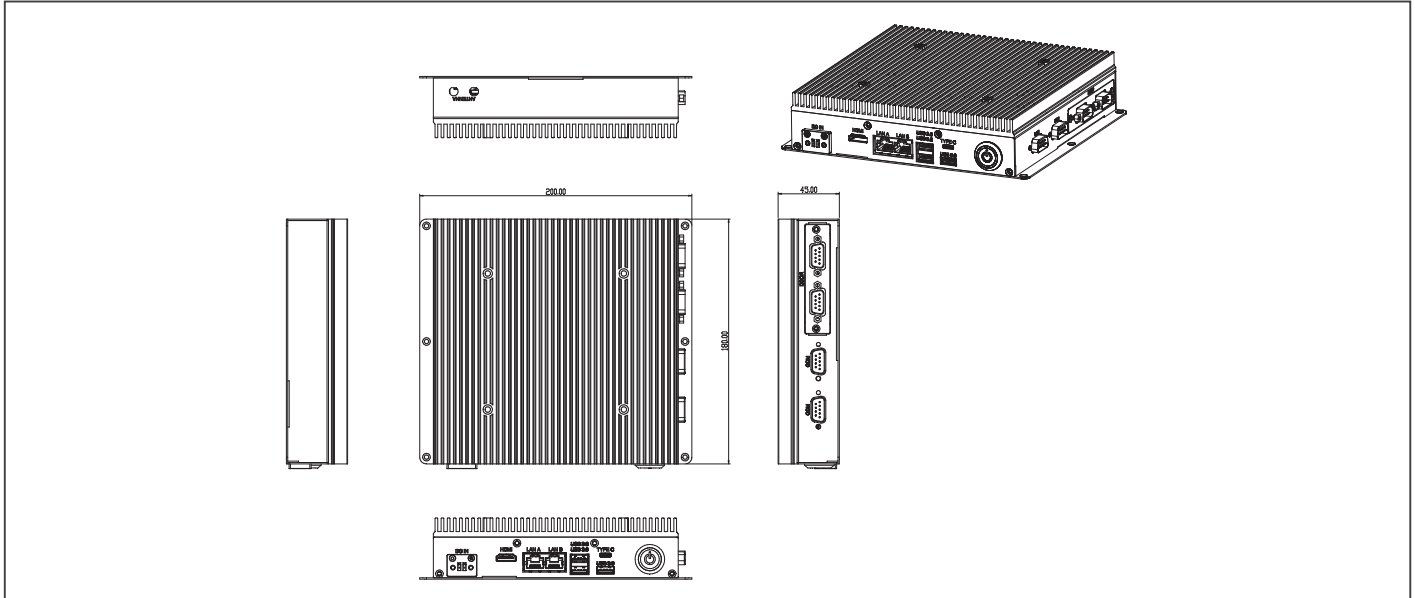


Specifications

System	
Processor	Intel® Alder Lake-P i7/i5/i3/Celeron CPU
System Memory	DDR5 4800 MHz, Dual Channel SODIMM x 2
LCD CRT Controller	—
Ethernet	Intel® i210/i211, 10/100/1000Base Intel® i225, 10/100/1000/2500Base
IO Port	LAN x2 USB Type A x3 USB Type C x1 HDMI x1 Audio x1 COM x2
Storage Disk Drive	2.5" SATA-III x1 (6 Gb/s, for 2.5" SATA drive bay) M.2 2280 NVMe x1 (For PCIe4 NVMe Storage)
Expansion Slot	B-Key 3052 x 1 (BOM Optional: PCIe x 2), default: USB3.2 Gne2+SATA E-Key 2230 x 1 (PCIe, USB2.0)
OS Support	Windows 10/Windows 11/Linux
Construction	Aluminum design
Mounting	TBD
Dimension	TBD
Gross Weight	TBD
Operating Temperature	23°F~122°F(-5°C ~ 50°C) with 0.5 m/s airflow
Storage Temperature	-4°F~140°F(-20°C~60°C)
Storage Humidity	90% @40°C; non-condensing
Anti Vibration	1Grms / 5 ~ 500Hz / operation
Anti-Shock	15 G peak acceleration (11 msec. duration)
Certification	CE/FCC Class A Compatible
DC Input	DC 9~36V
Display Type	OMNI Series Panel Kit from 12.1 inches to 21.5 inch
Others	Flat 5-Wire Resistive / PCAP multitouch (Support Gloves)

Dimension

Unit: mm



Packing List

- OMNI-ADP-KIT
- Power Connector

Optional Accessories

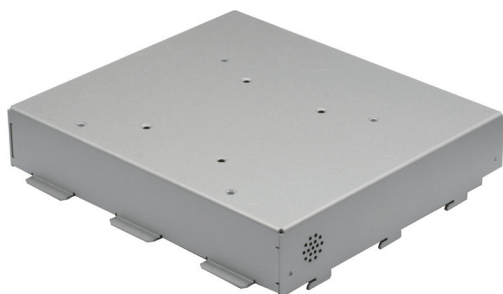
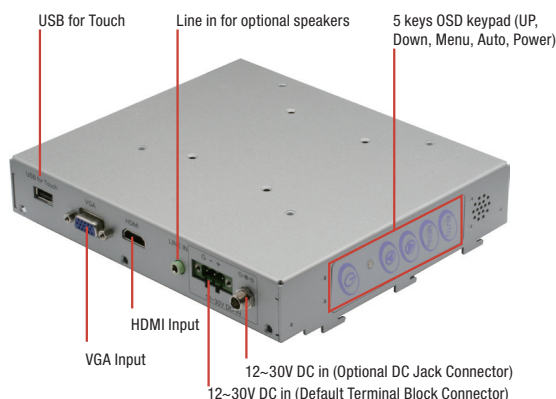
- TBD

Ordering Information

- TBD

OMNI-ADB-KIT

Display BOX Kit, DC 12~30V



Features

- Compatible with OMNI Series Modules- Panels: to Build Your Own OMNI Display
- No any Firmware Changes Needed to Combine with 7 Sizes OMNI Panel Modules
- DC 12~30V with Over Voltage/Current, Under Voltage Protection
- Optional Built-in Speakers

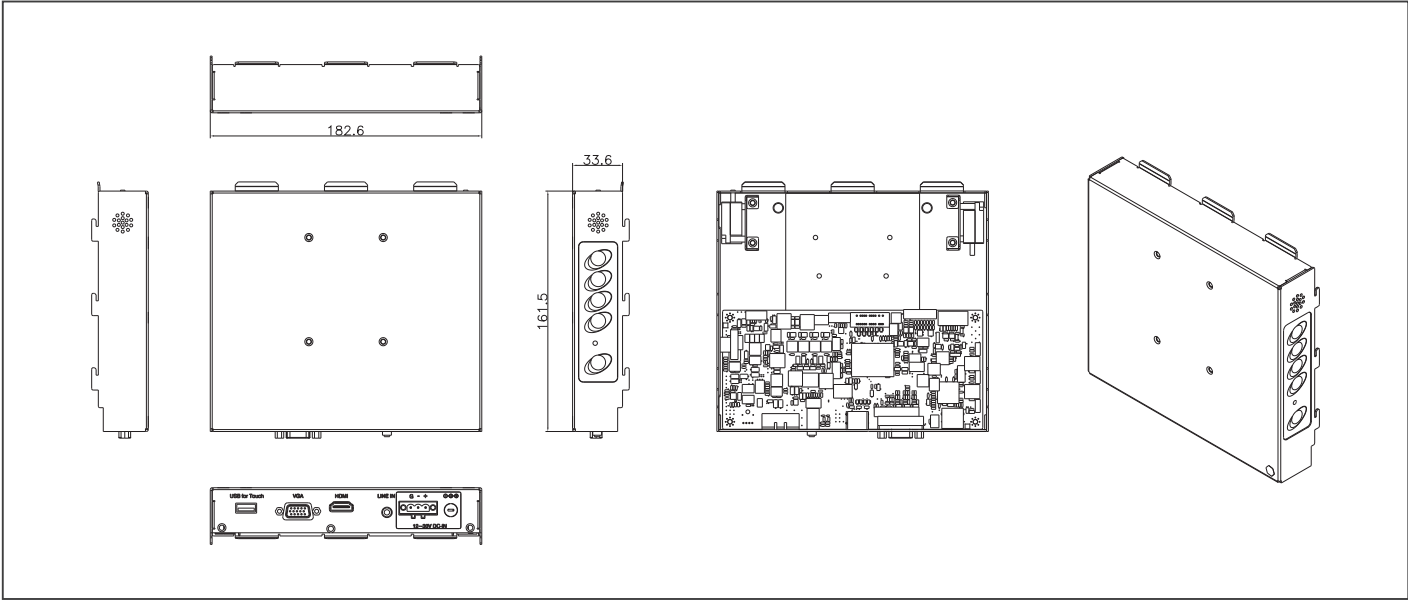


Specifications

System	
Input Signal	VGA / HDMI
On Screen Display Control	5 keys OSD keypad (Up, Down, Menu, Auto, Power)
I/O Port	DB-15 x 1 for VGA HDMI x 1 USB Type A x 1 (For Enable T/S Function) Line in x 1 (For optional internal Speaker) Power Input x 1(Default Terminal Block 3pin)
OS Support	Windows® 7 32/64-bit, Windows® 8 32/64-bit, Windows® 10 64-bit, Linux Ubuntu 16.04
Mechanical	
Construction	Metal chassis
Mounting	Must be assembled with OMNI-Series Modules-Panels
Dimension	5.1" x 6.4" x 1.2" (128.6mm x 161.5mm x 30.7mm)
Carton Dimension	12.3" x 10.1" x 7.6" (312mm x 257mm x 194mm)
Gross Weight	5.5 lb (2.5 kg)
Net Weight	2.6 lb (1.2 kg)
Environmental	
Operating Temperature	14°F ~ 131°F (-10°C ~ 55°C) With 0.5m/s Airflow
Storage Temperature	-4°F ~ 140°F (-20°C ~ 60°C)
Storage Humidity	10%~90% @104°F (40°C); non-condensing
Vibration	1 Grms / 5~500Hz/random Operation
Shock	—
EMC	CE/FCC, Class A
Power Supply	
DC Input	DC 12~30V Power Input with 3 Pin Terminal Block
LCD	
Display Type	Depends on your OMNI Panel Modules
Max. Resolution	
Max. Colors	
Luminance	
Viewing Angle	
Back Light	
Back Light MTBF (Hours)	
Touchscreen	
Type	
Light Transmission	Depends on your OMNI Panel Modules
Life Time	

Dimension

Unit: mm



Ordering Information

Part Number	Display Type	Max. Resolution	Luminance	View Angle	Backlight MTBF (Hours)	Display	Mounting	Power	Temp.	Touch	Other
OMNI-ADB-KIT-A1-1010	—	—	—	—	—	VGA x 1 HDMI x 1	Mount with OMNI Panel Modules	DC 12V~30V	14°F ~ 131°F (-10°C ~ 55°C) (with 0.5 m/s airflow)	—	—

Packing List

- VGA Cable x 1
- USB Cable for Touch x 1
- Phoenix Power Connector
- OMNI-ADB-Kit

Optional Accessories

- 125530040F
(TF)AC/DC Adapter.12V.40W.3.33A.FSP.3p phoenix.
FSP040-DHAN3.9NA0406819
- 1702031802
Power Cord (US Type)
- 1702031803
Power Cord (European Type)
- 170203180E
Power Cord (Japanese Type)

I/O Modules

9741215501 - Mini Card x 2 & SIM Card x 2 Module

Mini PCIe Slot x 2, for OMNI Panel PC Only



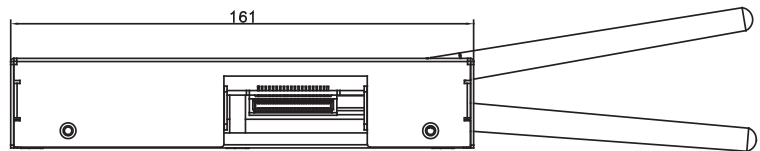
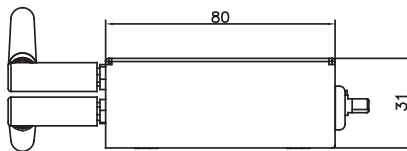
Features

- Full-size Mini-Card Slot x 2
- SIM Card Slot x 2
- OS support: Windows® 7, Windows® 10, Linux Kernel 2.6.x or above

Ordering Information

- **9741215501**
Mini Card x 2 & SIM Card x 2 Module (wireless Mini-Card Module Excluded)

Dimension Unit: mm



9741215502 - Dual LAN Module

Gigabit Ethernet x 2, for OMNI Panel PC only



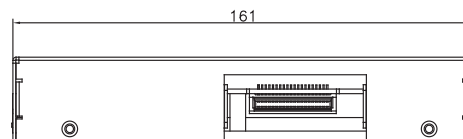
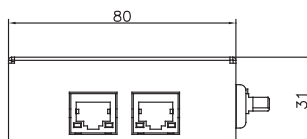
Features

- Gigabit Ethernet x 2
- Intel® i211 Chipset
- OS support: Windows® 7, Windows® 10, Linux Kernel 2.6.x or above

Ordering Information

- **9741215502**
Dual LAN Module

Dimension Unit: mm



9741215506 - DIO Module

DIO without Isolation x 8, for OMNI Panel PC only



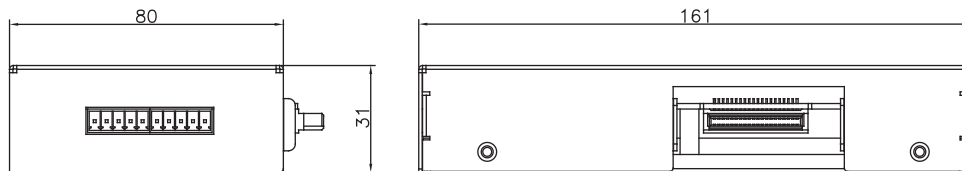
Features

- DIO x 8 (3.3 Vac)
- OS support: Windows® 7, Windows® 10, Linux Kernal 2.6.x or above

Ordering Information

- 9741215506
DIO Module

Dimension Unit: mm



9741215508 - Audio Module

MIC-In x 1, Line-out x 1, for OMNI Panel PC only



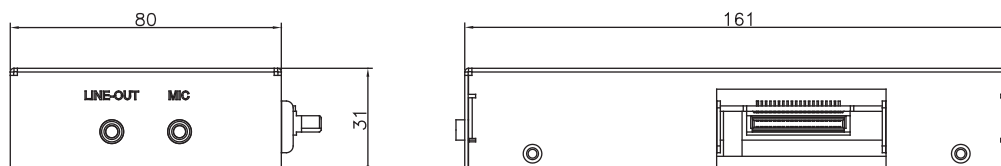
Features

- Mic in x 1
- Line out x 1
- OS support: Windows® 7, Windows® 10, Linux Kernal 2.6.x or above

Ordering Information

- 9741215508
Audio Module

Dimension Unit: mm



I/O Modules

9741215510 - HMS Kit

10/100 Ethernet x 2, for OMNI Panel PC Only



Features

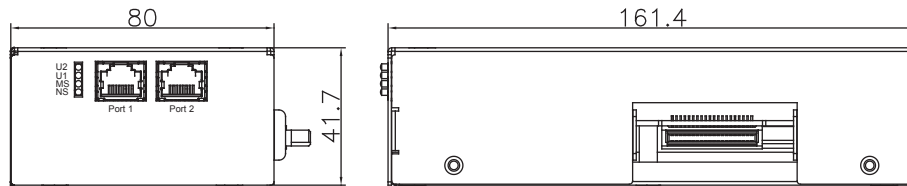
- 10/100 Ethernet x 2, Anybus
- Support All Major Industrial Ethernet and Fieldbus Networks
- OS support: Windows® 7, Windows® 10, Linux Kernal 2.6.x or above

* Due to communication protocol limit, only for EU region

Ordering Information

- 9741215510
HMS Kit

Dimension Unit: mm



9741215512

WiFi 802.11 b/g/n Module



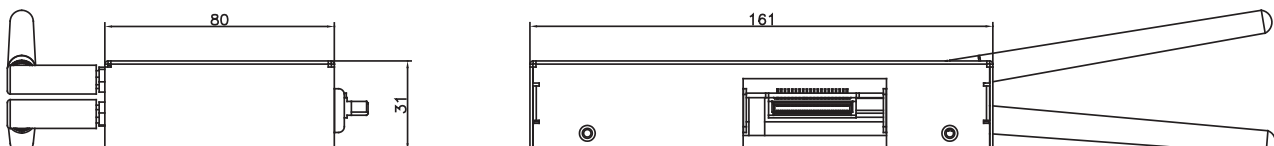
Features

- Supports 802.11b/g/n
- Supports BT 4.0
- OS support: Windows® 7, Windows® 10, Linux Kernal 2.6.x or above

Ordering Information

- 9741215512
WIFI 802.11 b/g/n Module

Dimension Unit: mm



9741215513

RS-485/422/232 Module



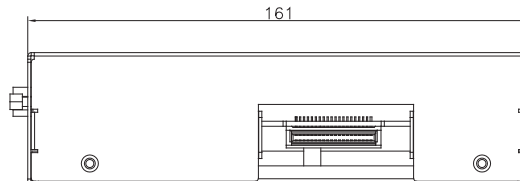
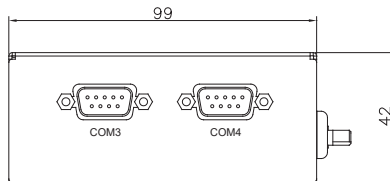
Features

- RS-232/422/485 x 2
- Selection by Jumper
- OS support: Windows® 7, Windows® 10, Linux Kernel 2.6.x or above

Ordering Information

- 9741215513
RS-485/422/232 Module

Dimension Unit: mm



9741215515

OMNI USB/COM/LAN Module



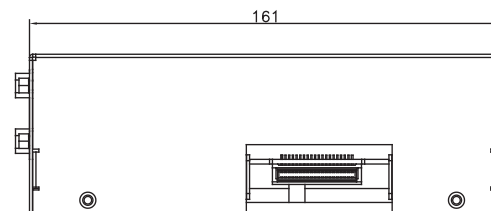
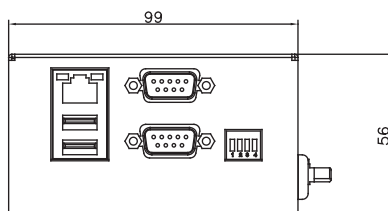
Features

- USB 2.0 x 2
- RS-232/422/485 x 2 (Selection by External Switch)
- Gigabit Ethernet x 1
- OS support: Windows® 7, Windows® 10, Linux Kernel 2.6.x or above

Ordering Information

- 9741215515
USB/COM/LAN Module

Dimension Unit: mm



I/O Modules

9741215516

OMNI COM x 4 Module

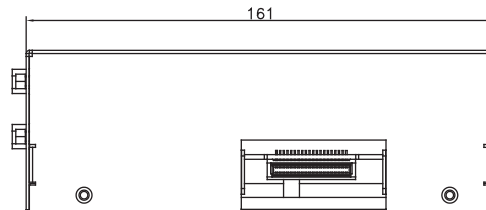
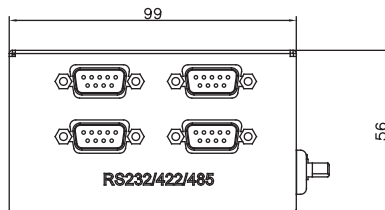


Features

- RS-232/422/485 x 4
- Selection by internal jumper
- OS support: Windows® 7, Windows® 10, Linux Kernel 2.6.x or above

Dimension

Unit: mm



9741215517

OMNI Isolated COM Module

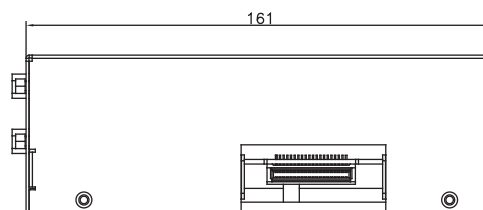
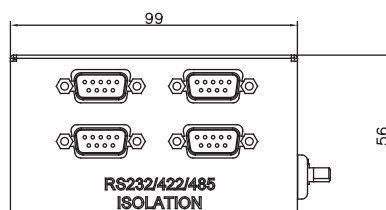


Features

- Isolated RS-232/422/485 x 4
- 2K VDC Isolation
- Selection by internal jumper
- OS support: Windows® 7, Windows® 10, Linux Kernel 2.6.x or above

Dimension

Unit: mm



9741215518

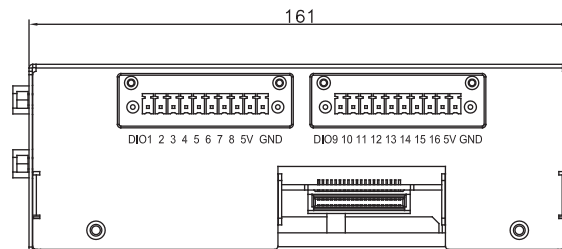
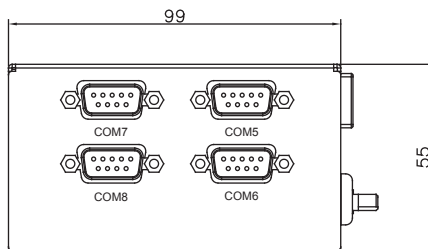
OMNI COM, DIO Module



Features

- DB-9 Isolated RS-232/422/485 x 4
- DIO x 16
- OS support: Windows® 7, Windows® 10, Linux Kernal 2.6.x or above

Dimension Unit: mm



06

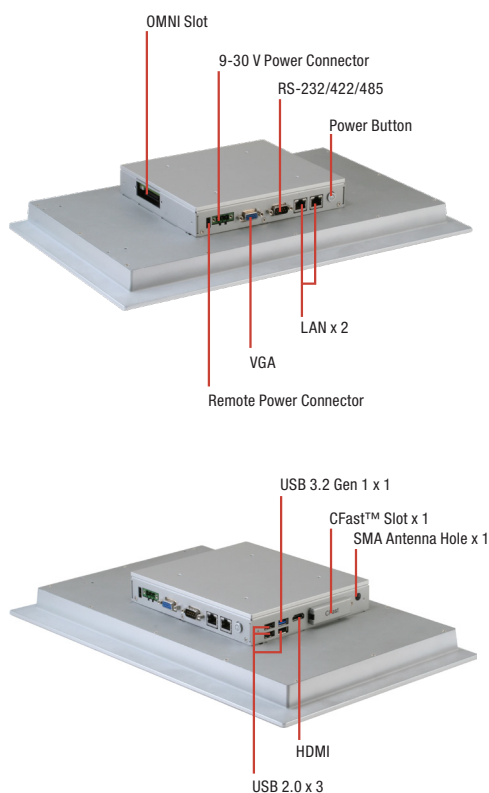
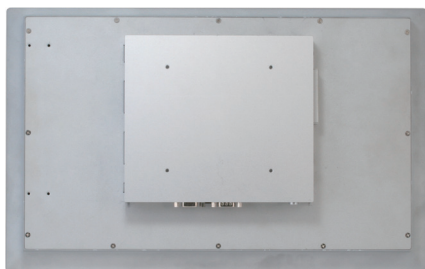
06

OMNI Series: Modular Touch Panel Solutions



OMNI-2155-BT

15.6" Modular HMI Panel PC with Intel® Celeron® J1900/ N2807 Processor



Features

- Intel® Celeron® J1900/ N2807 Processor
- 15.6" (1366 x 768) TFT LCD Display
- Flat Screen with P-CAP or Resistive Touch Screen
- Easily Expandable I/O by AAEON OMNI I/O Modules
- Multiple Touchscreen
- Aluminum Design
- IP65 Compliant Front Bezel
- Fanless Operation
- Support Remote Power On/Off Connector
- Power Input Protection: Over-Voltage Protection, Low-Voltage Protection, Reverse-Voltage Protection

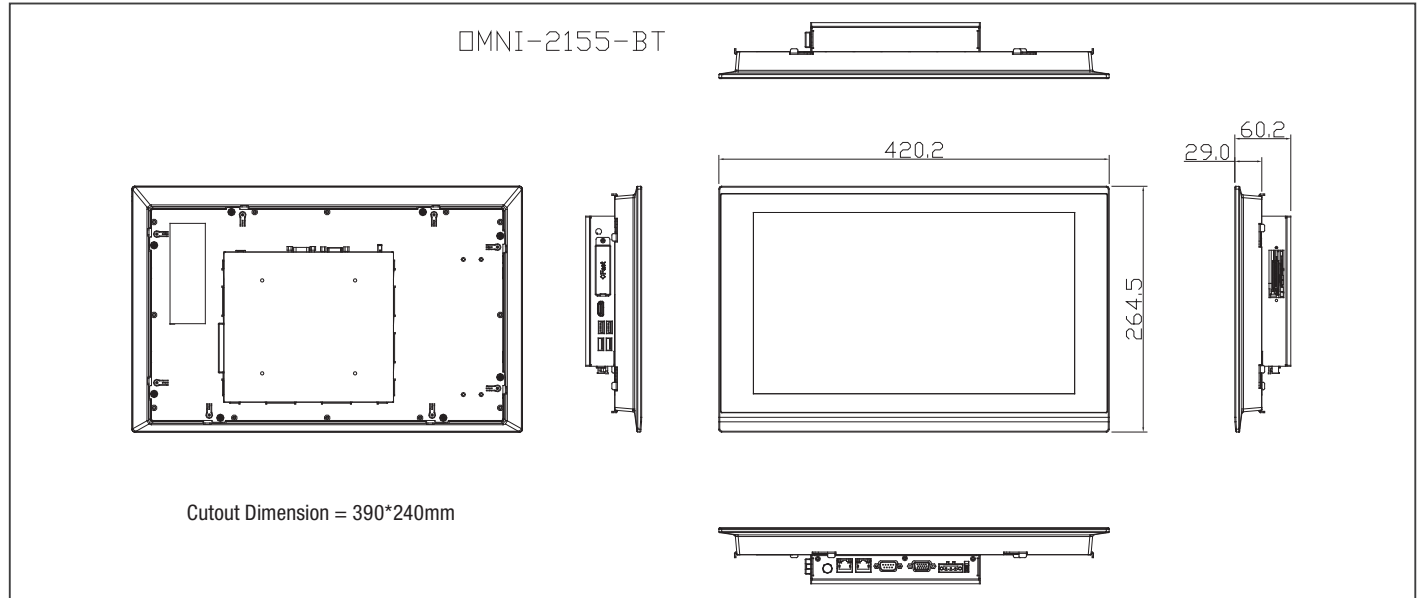


Specifications

System	
Processor	Intel® Celeron® J1900, 2.0 GHz/ N2807, 1.58 GHz
System Memory	204-pin DDR3L 1333MHz SODIMM x 1, up to 8 GB (J1900), 4 GB (N2807)
LCD/CRT Controller	Integrated in Processor
Ethernet	10/100/1000Base-TX, RJ-45 x 2
I/O Port	USB Type A x 1 for USB 3.2 Gen 1, USB Type A x 3 for USB 2.0 SMA antenna hole x 1, HDMI x 1 CFast™ x 1, DB-9 for RS-232/422/485 x 1 RJ-45 x 2 for 10/100/1000Base-TX DB-15 x 1 for VGA 3-pin terminal block x 1 for 9~30 V DC power input LED Power On/Off Switch x 1 (Power on = orange, Power off = N/A)
Storage Disk Drive	CFast™ socket x 1, SATA 2.5" HDD bay x 1
Expansion Slot	Mini-Card x 2 (Full Size), OMNI I/O Connector x 1, SIM x 2
OS support	Windows® 7, Windows® 8, Windows® 10, Linux kernel 2.6.x or higher
Mechanical	
Construction	Aluminum front bezel + metal chassis
Mounting	VESA 100/ Panel mount
Dimension	16.54" x 10.43" x 2.36" (420mm x 265mm x 60mm)
Carton Dimension	20.87" x 17.52" x 7.87" (530mm x 445mm x 200mm)
Gross Weight	14.1 lb (6.4kg)
Environmental	
Operating Temperature	-4°F ~ 140°F (-20°C ~ 60°C) with industrial grade device (with 0.5 m/s air flow, according to IEC68-2-14, CPU: N2807) -4°F ~ 131°F (-20°C ~ 55°C) with industrial grade device (with 0.5 m/s air flow, according to IEC68-2-14, CPU: J1900)
Storage Temperature	-4°F ~ 158°F (-20°C ~ 70°C)
Storage Humidity	90% @40°C, non-condensing
Vibration	1 Grms/ 5 ~ 500 Hz/ Operation (HDD)
Shock	15 G peak acceleration (11 msec. duration)
EMC	CE/FCC class A
Power Supply	
DC input	DC 9 (min.) ~ 30 (max.) V w/ 3-pin terminal block, ATX Power function
LCD	
Display Type	15.6" TFT-LCD, LED backlight
Max Resolution	1366 x 768
Max. Colors	16.7M colors (8-bit for R,G,B)
Luminance	400 cd/m²
Viewing Angle	160° (H), 140° (V)
Back Light	LED
Back Light MTBF (Hours)	50,000
Touchscreen	
Type	P-CAP/ 5-wire resistive
Light Transmission	P-CAP (90% ± 3%), 5-wire Resistive (80% ± 3%)

Dimension

Unit: mm



Ordering Information

	Part Number	Display Type	Max Resolution	Luminance	View Angle	CPU	LAN	USB 3.2 Gen 1	USB 2.0	RS-232/422/485	Storage	RAM	Display	Internal Expansion	Mounting	Power	Operating Temp.	Touch	OMNI I/O Module Support
Panel PC	OMNI-2155HTT-BT-A1-1011	15.6" TFT LCD	1366 x 768	400 cd/m ²	160°(H) 140°(V)	Intel® Celeron® J1900, 2 GHz	2	1	3	1	CFast™ x 1 2.5" SATA HDD x 1	DDR3L, up to 8 GB	VGA x 1 HDMI x 1	Mini-Card x 2 (Full Size)	VESA 100/ Panel mount	DC 9~30V	-10°C~55°C with airflow	5-wire Resistive	Yes
	OMNI-2155HTT-BT-A2-1011	15.6" TFT LCD	1366 x 768	400 cd/m ²	160°(H) 140°(V)	Intel® N2807, 1.58 GHz	2	1	3	1	CFast™ x 1 2.5" SATA HDD x 1	DDR3L, up to 4 GB	VGA x 1 HDMI x 1		VESA 100/ Panel mount	DC 9~30V	-10°C~60°C with airflow	5-wire Resistive	Yes
	OMNI-2155HTT-BT-A3-1012	15.6" TFT LCD	1366 x 768	400 cd/m ²	160°(H) 140°(V)	Intel® Celeron® J1900, 2 GHz	2	1	3	1	CFast™ x 1 2.5" SATA HDD x 1	DDR3L, up to 8 GB	VGA x 1 HDMI x 1		VESA 100/ Panel mount	DC 9~30V	-10°C~55°C with airflow	Projected capacitive	Yes
	OMNI-2155HTT-BT-A4-1012	15.6" TFT LCD	1366 x 768	400 cd/m ²	160°(H) 140°(V)	Intel® N2807, 1.58 GHz	2	1	3	1	CFast™ x 1 2.5" SATA HDD x 1	DDR3L, up to 4 GB	VGA x 1 HDMI x 1		VESA 100/ Panel mount	DC 9~30V	-10°C~60°C with airflow	Projected capacitive	Yes
Panel Kit	OMNI-215DHTT-KIT-A1-1011	15.6" TFT LCD	1366 x 768	400 cd/m ²	160°(H) 140°(V)	—	—	—	—	—	—	—	—	—	—	—	-10°C~60°C with airflow	5-wire Resistive	No
	OMNI-215DHTT-KIT-A2-1012	15.6" TFT LCD	1366 x 768	400 cd/m ²	160°(H) 140°(V)	—	—	—	—	—	—	—	—	—	—	—	-10°C~60°C with airflow	Projected capacitive	No
CPU Box Kit	OMNI-BT-KIT-A1-1010	—	—	—	—	Intel® Celeron® J1900, 2 GHz	2	1	3	1	CFast™ x 1 2.5" SATA HDD x 1	DDR3L, up to 8 GB	VGA x 1 HDMI x 1	Mini-Card x 2 (Full Size)	VESA 100/ Panel mount	DC 9~30V	-10°C~55°C with airflow	—	Yes
	OMNI-BT-KIT-A2-1010	—	—	—	—	Intel® N2807, 1.58 GHz	2	1	3	1	CFast™ x 1 2.5" SATA HDD x 1	DDR3L, up to 4 GB	VGA x 1 HDMI x 1	Mini-Card x 2 (Full Size)	VESA 100/ Panel mount	DC 9~30V	-10°C~60°C with airflow	—	Yes

Note: * RAM not included

Packing List

- Phoenix Power Connector
- OMNI-2155

Optional Accessories

- AP-0T9789LA1000
LCD Monitor Stand 230mm, LA-100
- 1702031802
Power Cord (US Type)
- 1702031803
Power Cord (European Type)
- 170203180E
Power Cord (Japanese Type)
- 1255900849
12V 84W Power Adapter w/ 3pin Terminal Block
- 1700021500
Remote Switch Cable, 150 cm

OMNI Module (With AAEON Interface)

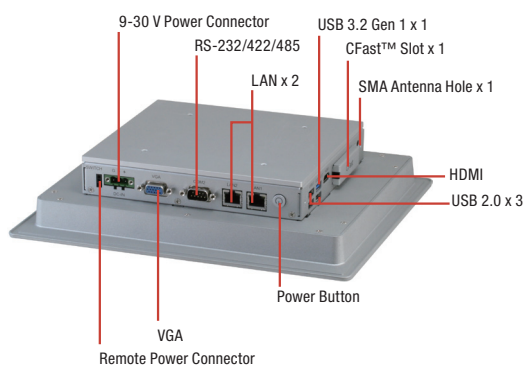
- 9741215501
Mini Card x 2, SIM x 2 Module
- 9741215502
Dual LAN Module
- 9741215506
DIO Module
- 9741215508
Audio Module
- 9741215510
HMS Kit (Europe Limitation)
- 9741215512
Wifi 802.11/b/g/n Module
- 9741215513
RS-485/422/232 x 2 Module
- 9741215515
USB/ COM/ LAN Module
- 9741215516
RS-485/422/232 x 4 Module
- 9741215517
Isolation RS-485/422/232 x 4 Module
- 9741215518
RS-485/422/232 x 2, DIO x 16 Module

Wide Temperature DRAM

- 9761215500
2GB Wide Temperature DRAM (-40°C ~ 95°C)
 - 9761215501
4GB Wide Temperature DRAM (-40°C ~ 95°C)
 - 9761215502
8GB Wide Temperature DRAM (-40°C ~ 95°C)
- **Users should select the wide temperature DRAM above and use wide temperature storage devices if the OMNI panel pc is to be operated at over 40°C.

OMNI-3105-BT

10.4" Modular HMI Panel PC with Intel® Celeron® J1900/ N2807 Processor



Features

- 10.4" (800 x 600) TFT LCD Display
- Intel® N2807/J1900 Processor
- P-CAP or Resistive Touch Screen Support
- Aluminum Design
- IP65 Compliant Front Bezel
- Fanless Operation

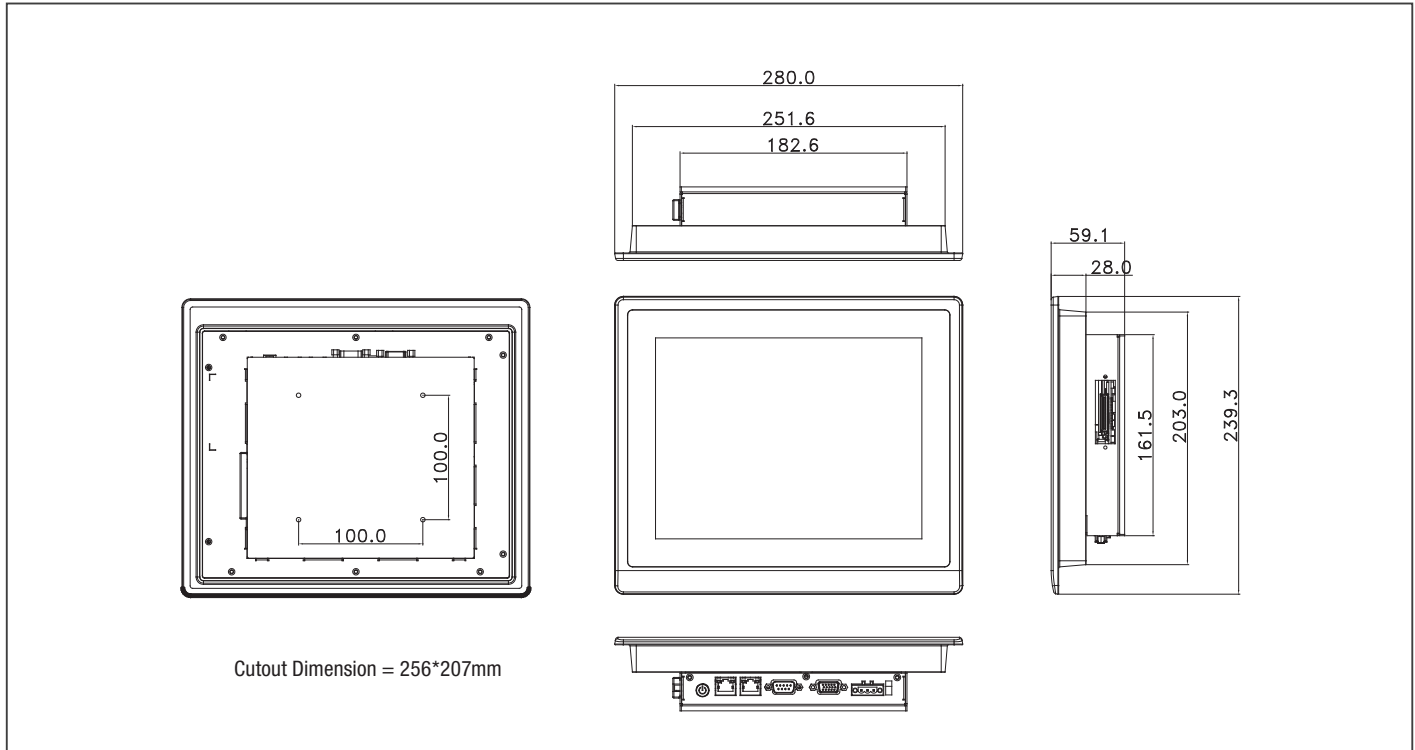


Specifications

System	
Processor	Intel® N2807 processor, 1.58 GHz, Intel® Celeron® J1900 processor, 2 GHz
System Memory	204-pin DDR3L 1333MHz SODIMM x 1, up to 8 GB, (J1900) 204-pin DDR3L 1333MHz SODIMM x 1, up to 4 GB, (N2807)
LCD/CRT Controller	Integrated in processor
Ethernet	Intel® I211, 10/100/1000 Base-TX x 2
I/O Port	USB 2.0 Type A x 3 USB 3.2 Gen 1 Type A x 1 SMA Antenna hole x 1 HDMI x 1 CFast™ x 1 DB-9 x 1 for RS-232/422/485 RJ-45 x 2 for GbE LAN DB-15 x 1 for VGA 3-pin terminal block x1 for 9~30 Vdc power input LED Power on/off switch x 1 (Power on = Orange, Power off =N/A)
Storage Disk Drive	CFast™ x 1, 2.5" SATA HDD bay x 1
Expansion Slot	Full Size Mini card x 2, SIM card x 1, OMNI I/O connector x 1
OS support	Windows® 7, Windows® 8, Windows® 10, Linux Kernal 2.6.x or higher
Mechanical	
Construction	Aluminum design (IP65 Front Frame)
Mounting	VESA 100 / Panel Mount
Dimension	11.02" x 9.41" x 2.32" (280 mm x 239 mm x 59 mm)
Carton Dimension	16.34" x 7.05" x 15.39" (415mm x 179mm x 391mm)
Gross Weight	7.92 lb (3.6 kg)
Environmental	
Operating Temperature	14°F ~ 131°F (-10°C ~ 55°C) (J1900), 14°F ~ 140°F (-10°C ~ 60°C) (N2807) with 0.5 m/s airflow (CF & HDD)
Storage Temperature	-4°F ~ 158°F (-20°C ~ 70°C)
Storage Humidity	90% @40°C; non-condensing
Vibration	1 Grms/ 5~ 500Hz/ operation – with HDD
Shock	15 G peak acceleration (11 msec. duration) – with HDD
EMC	CE/FCC class A
Power Supply	
DC input	DC 9 (min.) ~ 30 (max.) V w/ 3-pin terminal block, ATX Power function
LCD	
Display Type	10.4" TFT-LCD, LED
Max Resolution	800 (H) x 600 (V)
Max. Colors	16.2M colors
Luminance	230 cd/m²
Viewing Angle	120° (H), 100° (V)
Back Light	LED
Back Light MTBF (Hours)	50,000
Touchscreen	
Type	P-CAP/ 5-wire resistive
Light Transmission	P-CAP (90% ± 3%), 5-wire Resistive (80% ± 3%)

Dimension

Unit: mm



Ordering Information

	Part Number	Display Type	Max Resolution	Luminance	View Angle	CPU	LAN	USB 3.2 Gen 1	USB 2.0	RS-232/422/485	Storage	RAM	Display	Internal Expansion	Mounting	Power	Operating Temp.	Touch	OMNI I/O Module Support
Panel PC	OMNI-3105HTT-BT-A1-1011	10.4" TFT LCD	800 x 600	230 cd/m ²	120°(H) 100°(V)	Intel® Celeron® J1900, 2 GHz	2	1	3	1	CFast™ x 1 2.5" SATA HDD x 1	DDR3L, up to 8 GB	VGA x 1 HDMI x 1	Mini-Card x 2 (Full Size)	VESA 100/ Panel mount	DC 9~30V	-10°C~55°C with airflow	5-wire Resistive	No
	OMNI-3105HTT-BT-A2-1011	10.4" TFT LCD	800 x 600	230 cd/m ²	120°(H) 100°(V)	Intel® N2807, 1.58 GHz	2	1	3	1	CFast™ x 1 2.5" SATA HDD x 1	DDR3L, up to 4 GB	VGA x 1 HDMI x 1		VESA 100/ Panel mount	DC 9~30V	-10°C~60°C with airflow	5-wire Resistive	No
	OMNI-3105HTT-BT-A3-1011	10.4" TFT LCD	800 x 600	230 cd/m ²	120°(H) 100°(V)	Intel® Celeron® J1900, 2 GHz	2	1	3	1	CFast™ x 1 2.5" SATA HDD x 1	DDR3L, up to 8 GB	VGA x 1 HDMI x 1		VESA 100/ Panel mount	DC 9~30V	-10°C~55°C with airflow	Projected capacitive	No
	OMNI-3105HTT-BT-A4-1011	10.4" TFT LCD	800 x 600	230 cd/m ²	120°(H) 100°(V)	Intel® N2807, 1.58 GHz	2	1	3	1	CFast™ x 1 2.5" SATA HDD x 1	DDR3L, up to 4 GB	VGA x 1 HDMI x 1		VESA 100/ Panel mount	DC 9~30V	-10°C~60°C with airflow	Projected capacitive	No
Panel Kit	OMNI-310DHTT-KIT-A1-1011	10.4" TFT LCD	800 x 600	230 cd/m ²	120°(H) 100°(V)	—	—	—	—	—	—	—	—	—	—	—	-10°C~60°C with airflow	5-wire Resistive	No
	OMNI-310DHTT-KIT-A2-1011	10.4" TFT LCD	800 x 600	230 cd/m ²	120°(H) 100°(V)	—	—	—	—	—	—	—	—	—	—	—	-10°C~60°C with airflow	Projected capacitive	No
CPU Box Kit	OMNI-BT-KIT-A1-1010	—	—	—	—	Intel® Celeron® J1900, 2 GHz	2	1	3	1	CFast™ x 1 2.5" SATA HDD x 1	DDR3L, up to 8 GB	VGA x 1 HDMI x 1	Mini-Card x 2 (Full Size)	VESA 100/ Panel mount	DC 9~30V	-10°C~55°C with airflow	—	Yes
	OMNI-BT-KIT-A2-1010	—	—	—	—	Intel® N2807, 1.58 GHz	2	1	3	1	CFast™ x 1 2.5" SATA HDD x 1	DDR3L, up to 4 GB	VGA x 1 HDMI x 1	Mini-Card x 2 (Full Size)	VESA 100/ Panel mount	DC 9~30V	-10°C~60°C with airflow	—	Yes

Note: * RAM not included

* Due to size limitation, OMNI Expansion Modules only support the panel size starting from 15" (excluding 10.4", 12.1") by OMNI slot interface.

Packing List

- Phoenix Power Connector
- OMNI-3105-BT

Wide Temperature DRAM

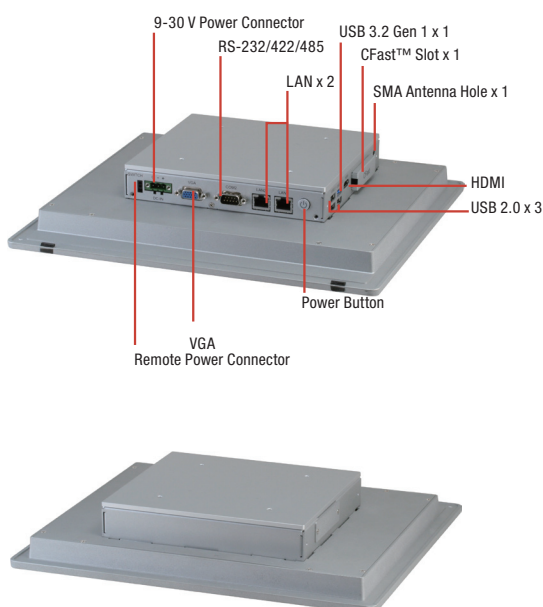
- **9761215500**
2GB Wide Temperature DRAM (-40°C ~ 95°C)
- **9761215501**
4GB Wide Temperature DRAM (-40°C ~ 95°C)
- **9761215502**
8GB Wide Temperature DRAM (-40°C ~ 95°C)
**Users should select the wide temperature DRAM above and use wide temperature storage devices if the OMNI panel pc is to be operated at over 40°C

Optional Accessories

- **AP-0T9789LA1000**
LCD Monitor Stand 230mm, LA-100
- **1702031802**
Power Cord (US Type)
- **1702031803**
Power Cord (European Type)
- **170203180E**
Power Cord (Japanese Type)
- **1255900849**
12V 84W Power Adapter w/ 3pin Terminal Block
- **1700021500**
Remote Switch Cable, 150cm

OMNI-3125-BT

12.1" Modular HMI Panel PC with Intel® Celeron® J1900/ N2807 Processor



Features

- 12.1" (1024 x 768) TFT LCD Display
- Intel® N2807/J1900 Processor
- P-CAP or Resistive Touch Screen Support
- Aluminum Design
- IP65 Compliant Front Bezel
- Fanless Operation

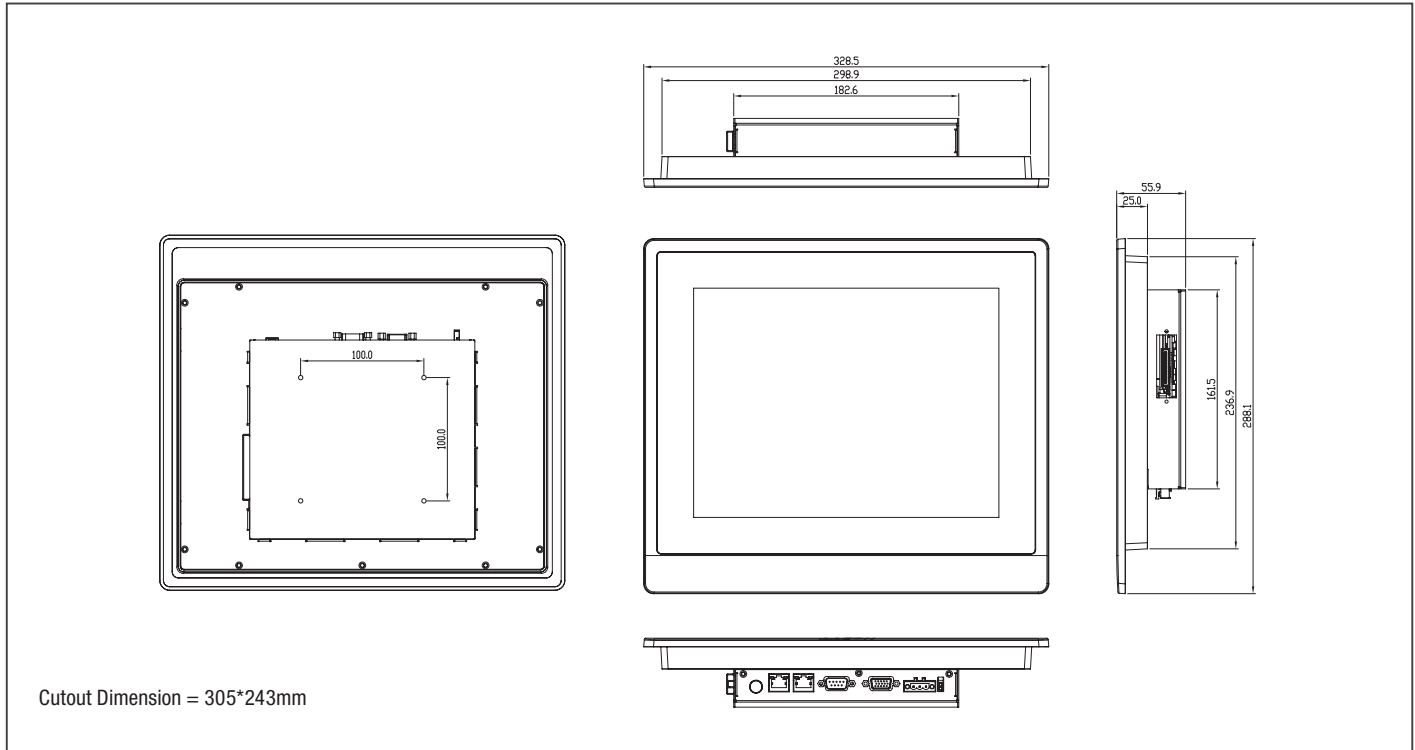


Specifications

System	
Processor	Intel® N2807 processor, 1.58 GHz Intel® Celeron® J1900 processor, 2 GHz
System Memory	204-pin DDR3L 1333MHz SODIMM x 1, up to 8 GB, (J1900) 204-pin DDR3L 1333MHz SODIMM x 1, up to 4 GB, (N2807)
LCD/CRT Controller	Integrated in processor
Ethernet	Intel® I211, 10/100/1000 Base-TX x 2
I/O Port	USB 2.0 Type A x 3 USB 3.2 Gen 1 Type A x 1 SMA Antenna hole x 1 HDMI x 1, CFast™ x 1 DB-9 Type RS-232/422/485 x 1 RJ-45 Type for 10/100/1000Base-TX x 2 DB-15 x 1 for VGA 3-pin terminal block x1 for 9~30 Vdc power input LED Power on/off switch x1 (Power on = Orange, Power off =N/A)
Storage Disk Drive	CFast™ x 1, 2.5" SATA HDD bay x 1
Expansion Slot	Full Size Mini card x 2, SIM card x 1, OMNI I/O connector x 1
OS support	Windows® 7, Windows® 8, Windows® 10, Linux kernel 2.6.x or higher
Mechanical	
Construction	Aluminum design (IP65 Front Frame)
Mounting	VESA 100/ Panel Mount
Dimension	12.95" x 11.34" x 2.2" (329 mm x 288 mm x 56 mm)
Carton Dimension	20.87" x 17.52" x 7.87" (530mm x 445mm x 200mm)
Gross Weight	11 lb (5.0 kg)
Environmental	
Operating Temperature	14°F ~ 131°F (-10°C ~ 55°C) (J1900), 14°F ~ 140°F (-10°C ~ 60°C) (N2807) with 0.5 m/s airflow (CF & HDD)
Storage Temperature	-4°F ~ 158°F (-20°C ~ 70°C)
Storage Humidity	90% @40°C; non-condensing
Vibration	1 Grms/ 5~ 500Hz/ operation – with HDD
Shock	15 G peak acceleration (11 msec. duration) – with HDD
EMC	CE/FCC class A
Power Supply	
DC input	DC 9 (min.) ~ 30 (max.) V w/3-pin terminal block, ATX Power function
LCD	
Display Type	12.1" TFT-LCD, LED
Max Resolution	1024 (H) x 768 (V)
Max. Colors	16.2M colors
Luminance	500 cd/m²
Viewing Angle	160° (H), 160° (V)
Back Light	LED
Back Light MTBF (Hours)	50,000
Touchscreen	
Type	P-CAP/ 5-wire resistive
Light Transmission	P-CAP (90% ± 3%), 5-wire Resistive (80% ± 3%)

Dimension

Unit: mm



Ordering Information

	Part Number	Display Type	Max Resolution	Luminance	View Angle	CPU	LAN	USB 3.2 Gen 1	USB 2.0	RS-232/422/485	Storage	RAM	Display	Internal Expansion	Mounting	Power	Operating Temp.	Touch	OMNI I/O Module Support
Panel PC	OMNI-3125HTT-BT-A1-1011	12.1" TFT LCD	1024 X 768	500 cd/m ²	160°(H) 160°(V)	Intel® Celeron® J1900, 2 GHz	2	1	3	1	CFast™ x 1 2.5" SATA HDD x 1	DDR3L, up to 8 GB	VGA x 1 HDMI x 1	Mini-Card x 2 (Full Size)	VESA 100/ Panel mount	DC 9~30V	-10°C~55°C with airflow	5-wire Resistive	No
	OMNI-3125HTT-BT-A2-1011	12.1" TFT LCD	1024 X 768	500 cd/m ²	160°(H) 160°(V)	Intel® N2807, 1.58 GHz	2	1	3	1	CFast™ x 1 2.5" SATA HDD x 1	DDR3L, up to 4 GB	VGA x 1 HDMI x 1		VESA 100/ Panel mount	DC 9~30V	-10°C~60°C with airflow	5-wire Resistive	No
	OMNI-3125HTT-BT-A3-1011	12.1" TFT LCD	1024 X 768	500 cd/m ²	160°(H) 160°(V)	Intel® Celeron® J1900, 2 GHz	2	1	3	1	CFast™ x 1 2.5" SATA HDD x 1	DDR3L, up to 8 GB	VGA x 1 HDMI x 1		VESA 100/ Panel mount	DC 9~30V	-10°C~55°C with airflow	Projected capacitive	No
	OMNI-3125HTT-BT-A4-1011	12.1" TFT LCD	1024 X 768	500 cd/m ²	160°(H) 160°(V)	Intel® N2807, 1.58 GHz	2	1	3	1	CFast™ x 1 2.5" SATA HDD x 1	DDR3L, up to 4 GB	VGA x 1 HDMI x 1		VESA 100/ Panel mount	DC 9~30V	-10°C~60°C with airflow	Projected capacitive	No
Panel Kit	OMNI-312DHTT-KIT-A1-1011	12.1" TFT LCD	1024 X 768	500 cd/m ²	160°(H) 160°(V)	—	—	—	—	—	—	—	—	—	—	—	-10°C~60°C with airflow	5-wire Resistive	No
	OMNI-312DHTT-KIT-A2-1011	12.1" TFT LCD	1024 X 768	500 cd/m ²	160°(H) 160°(V)	—	—	—	—	—	—	—	—	—	—	—	-10°C~60°C with airflow	Projected capacitive	No
CPU Box Kit	OMNI-BT-KIT-A1-1010	—	—	—	—	Intel® Celeron® J1900, 2 GHz	2	1	3	1	CFast™ x 1 2.5" SATA HDD x 1	DDR3L, up to 8 GB	VGA x 1 HDMI x 1	Mini-Card x 2 (Full Size)	VESA 100/ Panel mount	DC 9~30V	-10°C~55°C with airflow	—	Yes
	OMNI-BT-KIT-A2-1010	—	—	—	—	Intel® N2807, 1.58 GHz	2	1	3	1	CFast™ x 1 2.5" SATA HDD x 1	DDR3L, up to 4 GB	VGA x 1 HDMI x 1	Mini-Card x 2 (Full Size)	VESA 100/ Panel mount	DC 9~30V	-10°C~60°C with airflow	—	Yes

Note: * RAM not included

* Due to size limitation, OMNI Expansion Modules only support the panel size starting from 15" (excluding 10.4", 12.1") by OMNI slot interface.

Packing List

- Phoenix Power Connector
- OMNI-3125-BT

Wide Temperature DRAM

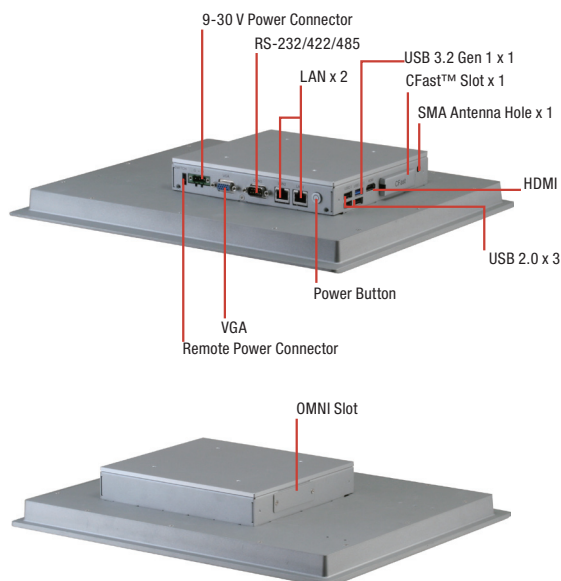
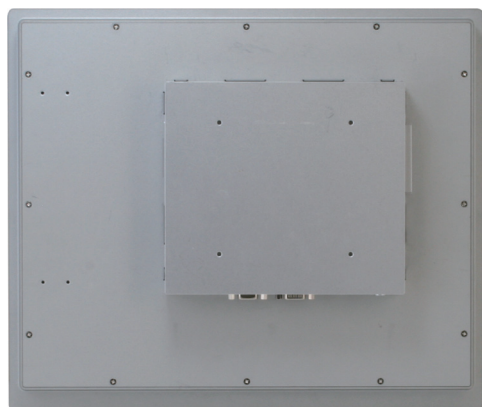
- 9761215500**
2GB Wide Temperature DRAM (-40°C ~ 95°C)
- 9761215501**
4GB Wide Temperature DRAM (-40°C ~ 95°C)
- 9761215502**
8GB Wide Temperature DRAM (-40°C ~ 95°C)
**Users should select the wide temperature DRAM above and use wide temperature storage devices if the OMNI panel pc is to be operated at over 40°C.

Optional Accessories

- AP-0T9789LA1000**
LCD Monitor Stand 230mm, LA-100
- 1702031802**
Power Cord (US Type)
- 1702031803**
Power Cord (European Type)
- 170203180E**
Power Cord (Japanese Type)
- 1255900849**
12V 84W Power Adapter w/ 3pin Terminal Block
- 9741312500**
Panel Mount Kit for OMNI-3125-BT

OMNI-3155-BT

15" Modular HMI Panel PC with Intel® Celeron® J1900/ N2807 Processor



Features

- 15" (1024 x 768) TFT LCD Display
- Intel® N2807/J1900 Processor
- P-CAP or Resistive Touch Screen Support
- Aluminum Design
- IP65 Compliant Front Bezel
- Fanless Operation
- Easily Expandable I/O by AAEON OMNI I/O Modules

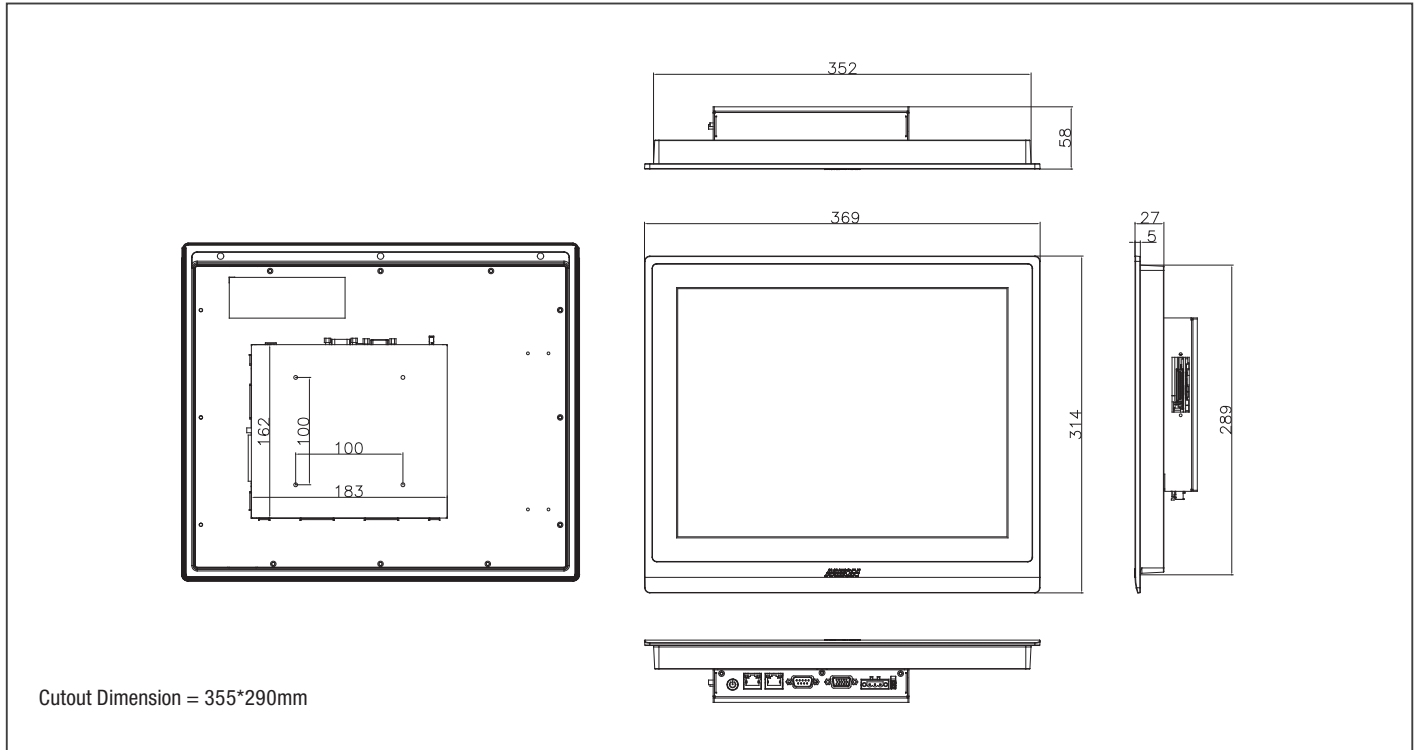


Specifications

System	
Processor	Intel® N2807 processor, 1.58 GHz Intel® Celeron® J1900 processor, 2 GHz
System Memory	204-pin DDR3L 1333MHz SODIMM x 1, up to 8 GB, (J1900) 204-pin DDR3L 1333MHz SODIMM x 1, up to 4 GB, (N2807)
LCD/CRT Controller	Integrated in processor
Ethernet	Intel® I211, 10/100/1000 Base-TX x 2
I/O Port	USB 2.0 Type A x 3 USB 3.2 Gen 1 Type A x 1 SMA Antenna hole x 1 HDMI x 1, CFast™ x 1 DB-9 Type RS-232/422/485 x 1 RJ-45 Type for 10/100/1000Base-TX x 2 DB-15 x 1 for VGA 3-pin terminal block x1 for 9~30 Vdc power input LED Power on/off switch x1 (Power on = Orange, Power off =N/A)
Storage Disk Drive	CFast™ x 1, 2.5" SATA HDD bay x 1
Expansion Slot	Full Size Mini card x 2, SIM card x 1, OMNI I/O connector x 1
OS support	Windows® 7, Windows® 8, Windows® 10, Linux kernel 2.6.x or higher
Mechanical	
Construction	Aluminum design (IP65 Front Frame)
Mounting	VESA 100 / Panel Mount
Dimension	14.53" x 12.36" x 2.28" (369 mm x 314 mm x 58 mm)
Carton Dimension	20.08" x 9.84" x 18.11" (510mm x 250mm x 460mm)
Gross Weight	13.97 lb (6.35 kg)
Environmental	
Operating Temperature	14°F ~ 131°F (-10°C ~ 55°C) (J1900), 14°F ~ 140°F (-10°C ~ 60°C) (N2807) with 0.5 m/s airflow (CF & HDD)
Storage Temperature	-4°F ~ 158°F (-20°C ~ 70°C)
Storage Humidity	90% @40°C; non-condensing
Vibration	1 Grms/ 5~ 500Hz/ operation – with HDD
Shock	15 G peak acceleration (11 msec. duration) – with HDD
EMC	CE/FCC class A
Power Supply	
DC input	DC 9 (min.) ~ 30 (max.) V w/3-pin terminal block, ATX Power function
LCD	
Display Type	15" TFT-LCD, LED
Max Resolution	1024 (H) x 768 (V)
Max. Colors	16.2M (8bit/color)
Luminance	300 cd/m²
Viewing Angle	176° (H), 176° (V)
Back Light	LED
Back Light MTBF (Hours)	70,000
Touchscreen	
Type	P-CAP/ 5-wire resistive
Light Transmission	P-CAP (90%± 2%), 5-wire Resistive (80% ± 2%)

Dimension

Unit: mm



Ordering Information

	Part Number	Display Type	Max Resolution	Luminance	View Angle	CPU	LAN	USB 3.2 Gen 1	USB 2.0	RS-232/422/485	Storage	RAM	Display	Internal Expansion	Mounting	Power	Operating Temp.	Touch	OMNI I/O Module Support
Panel PC	OMNI-3155HTT-BT-A1-1012	15" TFT LCD	1024 x 768	300 cd/m ²	176° (H), 176° (V)	Intel® Celeron® J1900, 2 GHz	2	1	3	1	CFast™ x 1 2.5" SATA HDD x 1	DDR3L, up to 8 GB	VGA x 1 HDMI x 1	Mini-Card x 2 (Full Size)	VESA 100/ Panel mount	DC 9~30V	-10°C~55°C with airflow	5-wire Resistive	Yes
	OMNI-3155HTT-BT-A2-1012	15" TFT LCD	1024 x 768	300 cd/m ²	176° (H), 176° (V)	Intel® N2807, 1.58 GHz	2	1	3	1	CFast™ x 1 2.5" SATA HDD x 1	DDR3L, up to 4 GB	VGA x 1 HDMI x 1		VESA 100/ Panel mount	DC 9~30V	-10°C~60°C with airflow	5-wire Resistive	Yes
	OMNI-3155HTT-BT-A3-1012	15" TFT LCD	1024 x 768	300 cd/m ²	176° (H), 176° (V)	Intel® Celeron® J1900, 2 GHz	2	1	3	1	CFast™ x 1 2.5" SATA HDD x 1	DDR3L, up to 8 GB	VGA x 1 HDMI x 1		VESA 100/ Panel mount	DC 9~30V	-10°C~55°C with airflow	Projected capacitive	Yes
	OMNI-3155HTT-BT-A4-1012	15" TFT LCD	1024 x 768	300 cd/m ²	176° (H), 176° (V)	Intel® N2807, 1.58 GHz	2	1	3	1	CFast™ x 1 2.5" SATA HDD x 1	DDR3L, up to 4 GB	VGA x 1 HDMI x 1		VESA 100/ Panel mount	DC 9~30V	-10°C~60°C with airflow	Projected capacitive	Yes
Panel Kit	OMNI-315DHTT-KIT-A1-1012	15" TFT LCD	1024 x 768	300 cd/m ²	176° (H), 176° (V)	—	—	—	—	—	—	—	—	—	—	—	-10°C~60°C with airflow	5-wire Resistive	No
	OMNI-315DHTT-KIT-A2-1012	15" TFT LCD	1024 x 768	300 cd/m ²	176° (H), 176° (V)	—	—	—	—	—	—	—	—	—	—	—	-10°C~60°C with airflow	Projected capacitive	No
CPU Box Kit	OMNI-BT-KIT-A1-1010	—	—	—	—	Intel® Celeron® J1900, 2 GHz	2	1	3	1	CFast™ x 1 2.5" SATA HDD x 1	DDR3L, up to 8 GB	VGA x 1 HDMI x 1	Mini-Card x 2 (Full Size)	VESA 100/ Panel mount	DC 9~30V	-10°C~55°C with airflow	—	Yes
	OMNI-BT-KIT-A2-1010	—	—	—	—	Intel® N2807, 1.58 GHz	2	1	3	1	CFast™ x 1 2.5" SATA HDD x 1	DDR3L, up to 4 GB	VGA x 1 HDMI x 1	Mini-Card x 2 (Full Size)	VESA 100/ Panel mount	DC 9~30V	-10°C~60°C with airflow	—	Yes

Note: * RAM not included

Packing List

- Phoenix Power Connector
- OMNI-3155-BT

Optional Accessories

- AP-0T9789LA1000
LCD Monitor Stand 230mm, LA-100
- 1702031802
Power Cord (US Type)
- 1702031803
Power Cord (European Type)
- 170203180E
Power Cord (Japanese Type)
- 1255900849
12V 84W Power Adapter w/ 3pin Terminal Block
- 1700021500
Remote Switch Cable, 150 cm

OMNI Module (with AAEON Interface)

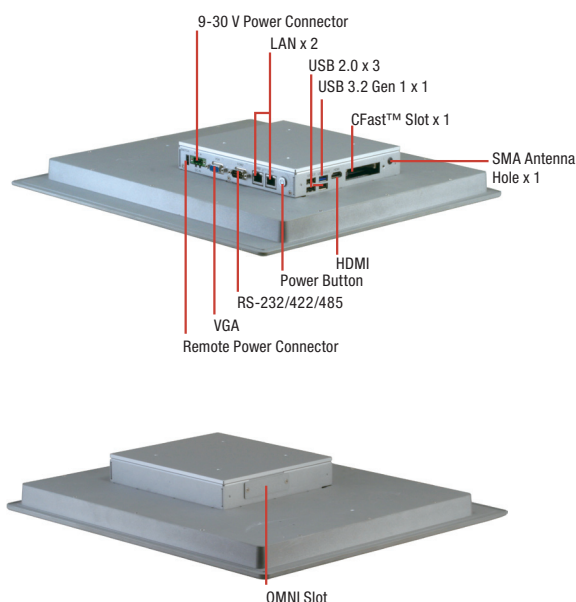
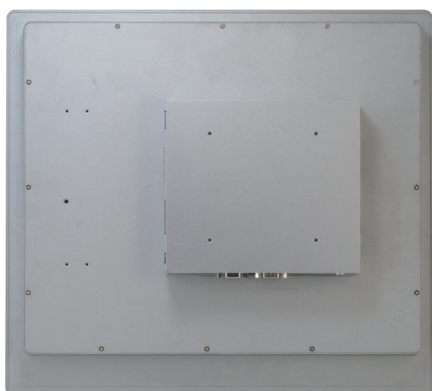
- 9741215501
Mini Card x 2, SIM x 2 Module
- 9741215502
Dual LAN Module
- 9741215506
DIO Module
- 9741215508
Audio Module
- 9741215510
HMS Kit (Europe Limitation)
- 9741215512
Wifi 802.11/b/g/n Module
- 9741215513
RS-485/422/232 x 2 Module
- 9741215515
USB / COM / LAN Module
- 9741215516
RS-485/422/232 x 4 Module
- 9741215517
Isolation RS-485/422/232 x 4 Module
- 9741215518
RS-485/422/232 x 2, DIO x 16 Module

Wide Temperature DRAM

- 9761215500
2GB Wide Temperature DRAM (-40°C ~ 95°C)
 - 9761215501
4GB Wide Temperature DRAM (-40°C ~ 95°C)
 - 9761215502
8GB Wide Temperature DRAM (-40°C ~ 95°C)
- **Users should select the wide temperature DRAM above and use wide temperature storage devices if the OMNI panel pc is to be operated at over 40°C.

OMNI-3175-BT

17" Modular HMI Panel PC with Intel® Celeron® J1900/ N2807 Processor



Features

- 17" (1280 x 1024) TFT LCD Display
- Intel® N2807/J1900 Processor
- P-CAP or Resistive Touch Screen Support
- Aluminum Design
- IP65 Compliant Front Bezel
- Fanless Operation
- Easily Expandable I/O by AAEON OMNI I/O Modules

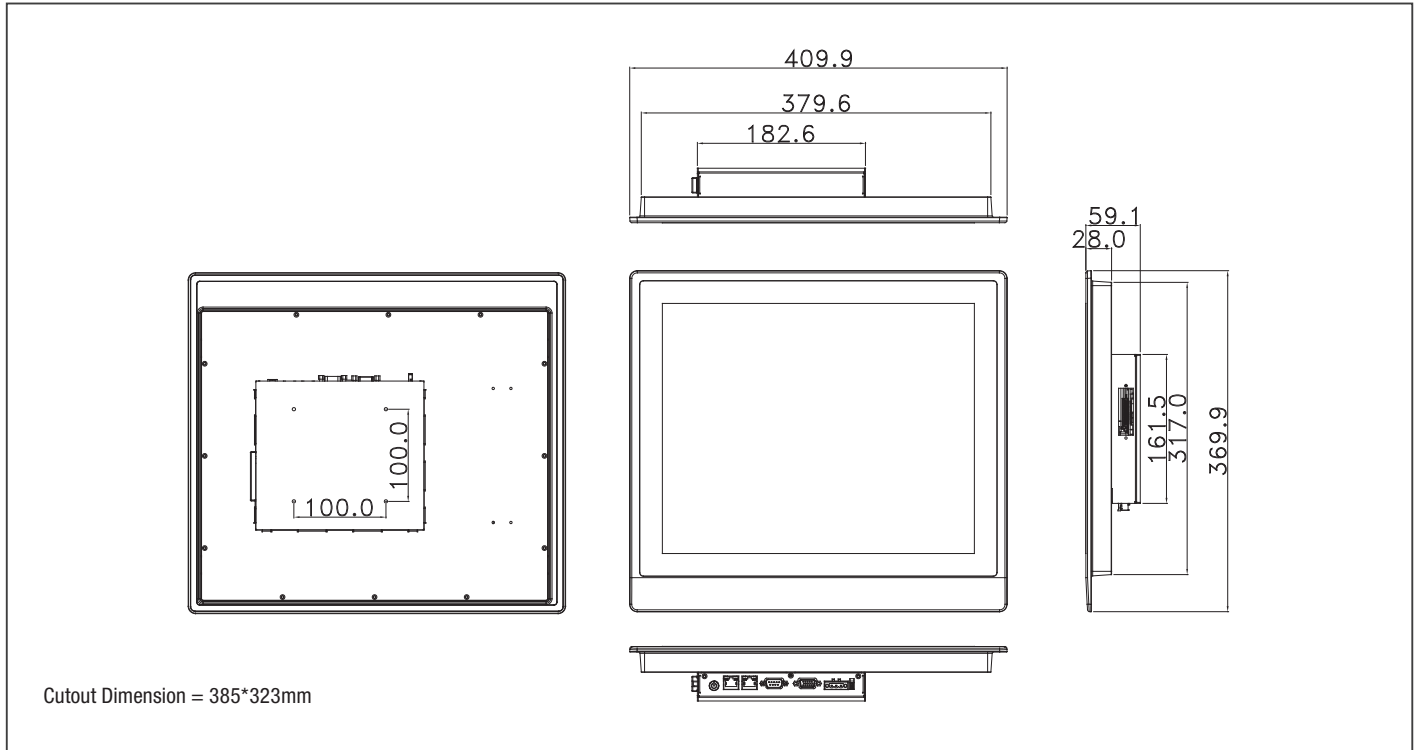


Specifications

System	
Processor	Intel® N2807 processor, 1.58 GHz Intel® Celeron® J1900 processor, 2 GHz
System Memory	204-pin DDR3L 1333MHz SODIMM x 1, up to 8 GB, (J1900) 204-pin DDR3L 1333MHz SODIMM x 1, up to 4 GB, (N2807)
LCD/CRT Controller	Integrated in processor
Ethernet	Intel® I211, 10/100/1000 Base-TX x 2
I/O Port	USB 2.0 Type A x 3, USB 3.2 Gen 1 Type A x 1 SMA Antenna hole x 1 HDMI x 1 CFast™ x 1 DB-9 Type RS-232/422/485 x 1 RJ-45 Type for 10/100/1000Base-TX x 2 DB-15 x 1 for VGA 3-pin terminal block x1 for 9~30 Vdc power input LED Power on/off switch x1 (Power on = Orange, Power off =N/A)
Storage Disk Drive	CFast™ x 1, 2.5" SATA HDD bay x 1
Expansion Slot	Mini card x 2, SIM card x 1, OMNI I/O connector x 1
OS support	Windows® 7, Windows® 8, Windows® 10, Linux kernel 2.6.x or higher
Mechanical	
Construction	Aluminum design (IP65 Front Frame)
Mounting	VESA 100/Panel Mount
Dimension	16.14" x 14.57" x 2.32" (410mm x 370mm x 59mm)
Carton Dimension	20.55" x 10.31" x 19.29" (522mm x 262mm x 490mm)
Gross Weight	15.84 lb (7.2 kg)
Environmental	
Operating Temperature	14°F ~ 131°F (-10°C ~ 55°C) (J1900), 14°F ~ 140°F (-10°C ~ 60°C) (N2807) with 0.5 m/s airflow (CF & HDD)
Storage Temperature	-4°F ~ 158°F (-20°C ~ 70°C)
Storage Humidity	90% @40°C; non-condensing
Vibration	1 Grms/ 5~ 500Hz/ operation – with HDD
Shock	15 G peak acceleration (11 msec. duration) – with HDD
EMC	CE/FCC class A
Power Supply	
DC input	DC 9 (min.) ~ 30 (max.) V w/3-pin terminal block, ATX Power function
LCD	
Display Type	17" TFT-LCD, LED
Max Resolution	1280 (H) x 1024 (V)
Max. Colors	16.7M colors (RGB 6-bits + Hi-FRC data)
Luminance	350 cd/m²
Viewing Angle	170° (H), 160° (V)
Back Light	LED
Back Light MTBF (Hours)	50,000
Touchscreen	
Type	P-CAP/ 5-wire resistive
Light Transmission	P-CAP (≥85%), 5-wire Resistive (80% ± 5%)

Dimension

Unit: mm



Ordering Information

	Part Number	Display Type	Max Resolution	Luminance	View Angle	CPU	LAN	USB 3.2 Gen 1	USB 2.0	RS-232/422/485	Storage	RAM	Display	Internal Expansion	Mounting	Power	Operating Temp.	Touch	OMNI I/O Module Support
Panel PC	OMNI-3175HTT-BT-A1-1012	17" TFT LCD	1280 x 1024	350 cd/m ²	170°(H) 160°(V)	Intel® Celeron® J1900, 2 GHz	2	1	3	1	CFast™ x 1 2.5" SATA HDD x 1	DDR3L, up to 8 GB	VGA x 1 HDMI x 1	Mini-Card x 2 (Full Size)	VESA 100/ Panel mount	DC 9~30V	-10°C~55°C with airflow	5-wire Resistive	Yes
	OMNI-3175HTT-BT-A2-1012	17" TFT LCD	1280 x 1024	350 cd/m ²	170°(H) 160°(V)	Intel® N2807, 1.58 GHz	2	1	3	1	CFast™ x 1 2.5" SATA HDD x 1	DDR3L, up to 4 GB	VGA x 1 HDMI x 1		VESA 100/ Panel mount	DC 9~30V	-10°C~60°C with airflow	5-wire Resistive	Yes
	OMNI-3175HTT-BT-A3-1011	17" TFT LCD	1280 x 1024	350 cd/m ²	170°(H) 160°(V)	Intel® Celeron® J1900, 2 GHz	2	1	3	1	CFast™ x 1 2.5" SATA HDD x 1	DDR3L, up to 8 GB	VGA x 1 HDMI x 1		VESA 100/ Panel mount	DC 9~30V	-10°C~55°C with airflow	Projected capacitive	Yes
	OMNI-3175HTT-BT-A4-1011	17" TFT LCD	1280 x 1024	350 cd/m ²	170°(H) 160°(V)	Intel® N2807, 1.58 GHz	2	1	3	1	CFast™ x 1 2.5" SATA HDD x 1	DDR3L, up to 4 GB	VGA x 1 HDMI x 1		VESA 100/ Panel mount	DC 9~30V	-10°C~60°C with airflow	Projected capacitive	Yes
Panel Kit	OMNI-317DHTT-KIT-A1-1012	17" TFT LCD	1280 x 1024	350 cd/m ²	170°(H) 160°(V)	—	—	—	—	—	—	—	—	—	—	—	-10°C~60°C with airflow	5-wire Resistive	No
	OMNI-317DHTT-KIT-A2-1011	17" TFT LCD	1280 x 1024	350 cd/m ²	170°(H) 160°(V)	—	—	—	—	—	—	—	—	—	—	—	-10°C~60°C with airflow	Projected capacitive	No
CPU Box Kit	OMNI-BT-KIT-A1-1010	—	—	—	—	Intel® Celeron® J1900, 2 GHz	2	1	3	1	CFast™ x 1 2.5" SATA HDD x 1	DDR3L, up to 8 GB	VGA x 1 HDMI x 1	Mini-Card x 2 (Full Size)	VESA 100/ Panel mount	DC 9~30V	-10°C~55°C with airflow	—	Yes
	OMNI-BT-KIT-A2-1010	—	—	—	—	Intel® N2807, 1.58 GHz	2	1	3	1	CFast™ x 1 2.5" SATA HDD x 1	DDR3L, up to 4 GB	VGA x 1 HDMI x 1	Mini-Card x 2 (Full Size)	VESA 100/ Panel mount	DC 9~30V	-10°C~60°C with airflow	—	Yes

Note: * RAM not included

Packing List

- Phoenix Power Connector
- OMNI-3175-BT

Optional Accessories

- AP-OT9789LA1000
LCD Monitor Stand 230mm, LA-100
- 1702031802
Power Cord (US Type)
- 1702031803
Power Cord (European Type)
- 170203180E
Power Cord (Japanese Type)
- 1255900849
12V 84W Power Adapter w/ 3pin Terminal Block
- 1700021500
Remote Switch Cable, 150 cm

OMNI Module (With AAEON Interface)

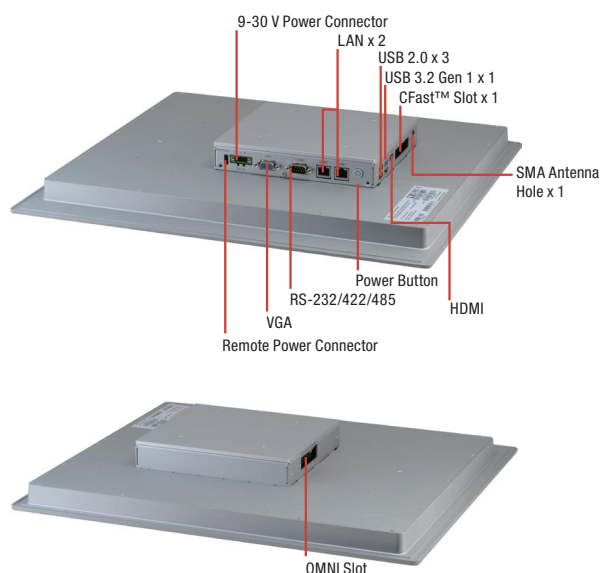
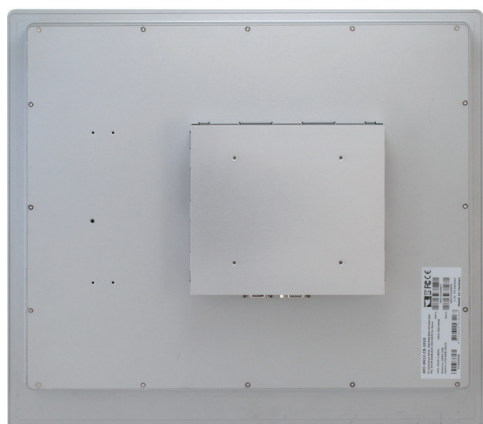
- 9741215501
Mini Card x 2, SIM x 2 Module
- 9741215502
Dual LAN Module
- 9741215506
DIO Module
- 9741215508
Audio Module
- 9741215510
HMS Kit (Europe Limitation)
- 9741215512
Wifi 802.11/b/g/n Module
- 9741215513
RS-485/422/232 x 2 Module
- 9741215515
USB / COM / LAN Module
- 9741215516
RS-485/422/232 x 4 Module
- 9741215517
Isolation RS-485/422/232 x 4 Module
- 9741215518
RS-485/422/232 x 2, DIO x 16 Module

Wide Temperature DRAM

- 9761215500
2GB Wide Temperature DRAM (-40°C ~ 95°C)
 - 9761215501
4GB Wide Temperature DRAM (-40°C ~ 95°C)
 - 9761215502
8GB Wide Temperature DRAM (-40°C ~ 95°C)
- **Users should select the wide temperature DRAM above and use wide temperature storage devices if the OMNI panel pc is to be operated at over 40°C.

OMNI-3195-BT

19" Modular HMI Panel PC with Intel® Celeron® J1900/ N2807 Processor



Features

- 19" (1280 x 1024) TFT LCD Display
- Intel® N2807/J1900 Processor
- P-CAP or Resistive Touch Screen Support
- Aluminum Design
- IP65 Compliant Front Bezel
- Fanless Operation
- Easily Expandable I/O by AAEON OMNI I/O Modules

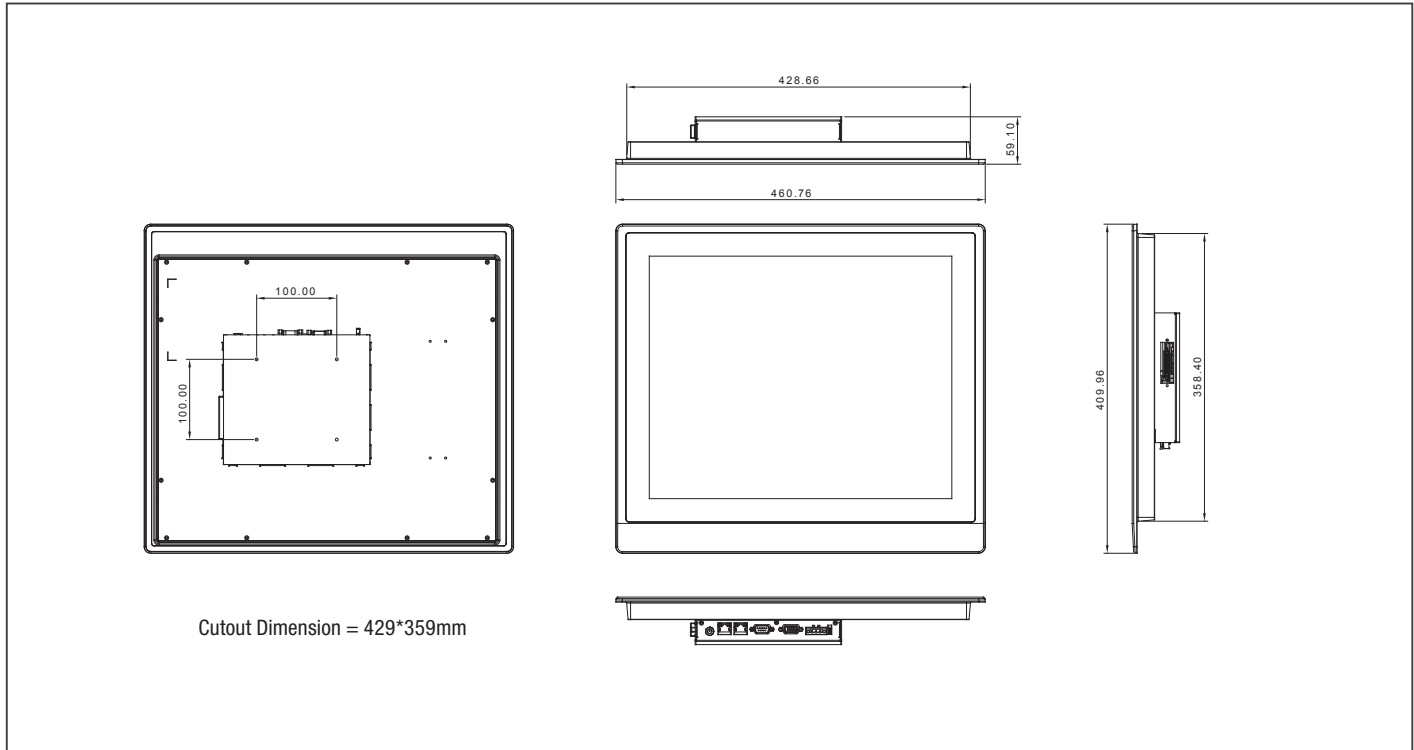


Specifications

System	
Processor	Intel® N2807 processor, 1.58 GHz Intel® Celeron® J1900 processor, 2 GHz
System Memory	204-pin DDR3L 1333MHz SODIMM x 1, up to 8 GB, (J1900) 204-pin DDR3L 1333MHz SODIMM x 1, up to 4 GB, (N2807)
LCD/CRT Controller	Integrated in processor
Ethernet	Intel® I211, 10/100/1000 Base-TX x 2
I/O Port	USB 2.0 Type A x 3, USB 3.2 Gen 1 Type A x 1 SMA Antenna hole x 1 HDMI x 1 CFast™ x 1 DB-9 Type RS-232/422/485 x 1 RJ-45 Type for 10/100/1000 Base-TX x 2 DB-15 x 1 for VGA 3-pin terminal block x1 for 9~30 Vdc power input LED Power on/off switch x1 (Power on = Orange, Power off =N/A)
Storage Disk Drive	CFast™ x 1, 2.5" SATA HDD bay x 1
Expansion Slot	Full Size Mini card x 2, SIM card x 2, OMNI I/O connector x 1
OS support	Windows® 7, Windows® 8, Windows® 10, Linux kernel 2.6.x or higher
Mechanical	
Construction	Aluminum design (IP65 Front Frame)
Mounting	VESA 100/Panel mount
Dimension	18.15" x 16.14" x 2.32" (461 mm x 410 mm x 59 mm)
Carton Dimension	26.02" x 8.11" x 19.53" (661mm x 206mm x 496mm)
Gross Weight	19.36 lb (8.8 kg)
Environmental	
Operating Temperature	14°F ~ 131°F (-10°C ~ 55°C) (J1900), 14°F ~ 140°F (-10°C ~ 60°C) (N2807) with 0.5 m/s airflow (CF & HDD)
Storage Temperature	-4°F ~ 158°F (-20°C ~ 70°C)
Storage Humidity	90% @40°C; non-condensing
Vibration	1 Grms/ 5~ 500Hz/ operation – with HDD
Shock	15 G peak acceleration (11 msec. duration) – with HDD
EMC	CE/FCC class A
Power Supply	
DC input	DC 9 (min.) ~ 30 (max.) V w/3-pin terminal block, ATX Power function
LCD	
Display Type	19" TFT-LCD, LED
Max Resolution	1280 (H) x 1024 (V)
Max. Colors	16.7M colors
Luminance	350 cd/m²
Viewing Angle	170° (H), 160° (V)
Back Light	LED
Back Light MTBF (Hours)	50,000
Touchscreen	
Type	P-CAP/ 5-wire resistive
Light Transmission	P-CAP (≥85%), 5-wire Resistive (80% ± 5%)

Dimension

Unit: mm



Ordering Information

	Part Number	Display Type	Max Resolution	Luminance	View Angle	CPU	LAN	USB 3.2 Gen 1	USB 2.0	RS-232/422/485	Storage	RAM	Display	Internal Expansion	Mounting	Power	Operating Temp.	Touch	OMNI I/O Module Support
Panel PC	OMNI-3195HTT-BT-A1-1012	19" TFT LCD	1280 x 1024	350 cd/m ²	170°(H) 160°(V)	Intel® Celeron® J1900, 2 GHz	2	1	3	1	CFast™ x 1 2.5" SATA HDD x 1	DDR3L, up to 8 GB	VGA x 1 HDMI x 1	Mini-Card x 2 (Full Size)	VESA 100/ Panel mount	DC 9~30V	-10°C~55°C with airflow	5-wire Resistive	Yes
	OMNI-3195HTT-BT-A2-1012	19" TFT LCD	1280 x 1024	350 cd/m ²	170°(H) 160°(V)	Intel® N2807, 1.58 GHz	2	1	3	1	CFast™ x 1 2.5" SATA HDD x 1	DDR3L, up to 4 GB	VGA x 1 HDMI x 1		VESA 100/ Panel mount	DC 9~30V	-10°C~60°C with airflow	5-wire Resistive	Yes
	OMNI-3195HTT-BT-A3-1011	19" TFT LCD	1280 x 1024	350 cd/m ²	170°(H) 160°(V)	Intel® Celeron® J1900, 2 GHz	2	1	3	1	CFast™ x 1 2.5" SATA HDD x 1	DDR3L, up to 8 GB	VGA x 1 HDMI x 1		VESA 100/ Panel mount	DC 9~30V	-10°C~55°C with airflow	Projected capacitive	Yes
	OMNI-3195HTT-BT-A4-1011	19" TFT LCD	1280 x 1024	350 cd/m ²	170°(H) 160°(V)	Intel® N2807, 1.58 GHz	2	1	3	1	CFast™ x 1 2.5" SATA HDD x 1	DDR3L, up to 4 GB	VGA x 1 HDMI x 1		VESA 100/ Panel mount	DC 9~30V	-10°C~60°C with airflow	Projected capacitive	Yes
Panel Kit	OMNI-319DHTT-KIT-A1-1012	19" TFT LCD	1280 x 1024	350 cd/m ²	170°(H) 160°(V)	—	—	—	—	—	—	—	—	—	—	—	-10°C~60°C with airflow	5-wire Resistive	No
	OMNI-319DHTT-KIT-A2-1011	19" TFT LCD	1280 x 1024	350 cd/m ²	170°(H) 160°(V)	—	—	—	—	—	—	—	—	—	—	—	-10°C~60°C with airflow	Projected capacitive	No
CPU Box Kit	OMNI-BT-KIT-A1-1010	—	—	—	—	Intel® Celeron® J1900, 2 GHz	2	1	3	1	CFast™ x 1 2.5" SATA HDD x 1	DDR3L, up to 8 GB	VGA x 1 HDMI x 1	Mini-Card x 2 (Full Size)	VESA 100/ Panel mount	DC 9~30V	-10°C~55°C with airflow	—	Yes
	OMNI-BT-KIT-A2-1010	—	—	—	—	Intel® N2807, 1.58 GHz	2	1	3	1	CFast™ x 1 2.5" SATA HDD x 1	DDR3L, up to 4 GB	VGA x 1 HDMI x 1	Mini-Card x 2 (Full Size)	VESA 100/ Panel mount	DC 9~30V	-10°C~60°C with airflow	—	Yes

Note: * RAM not included

Packing List

- Phoenix Power Connector
- OMNI-3195-BT

Optional Accessories

- AP-0T9789LA1000
LCD Monitor Stand 230mm, LA-100
- 1702031802
Power Cord (US Type)
- 1702031803
Power Cord (European Type)
- 170203180E
Power Cord (Japanese Type)
- 1255900849
12V 84W Power Adapter w/ 3pin Terminal Block
- 1700021500
Remote Switch Cable, 150 cm

OMNI Module (With AAEON Interface)

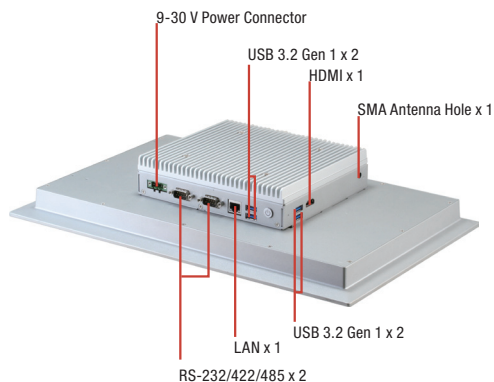
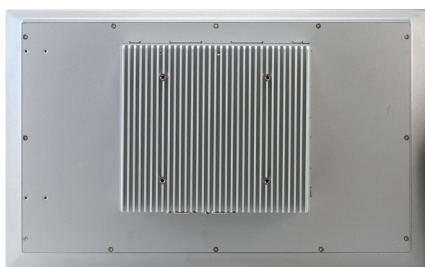
- 9741215501
Mini Card x 2, SIM x 2 Module
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Dual LAN Module
- 9741215506
DIO Module
- 9741215508
Audio Module
- 9741215510
HMS Kit (Europe Limitation)
- 9741215512
Wifi 802.11/b/g/n Module
- 9741215513
RS-485/422/232 x 2 Module
- 9741215515
USB / COM / LAN Module
- 9741215516
RS-485/422/232 x 4 Module
- Module
- 9741215517
Isolation RS-485/422/232 x 4 Module
- 9741215518
RS-485/422/232 x 2, DIO x 16 Module

Wide Temperature DRAM

- 9761215500
2GB Wide Temperature DRAM (-40°C ~ 95°C)
 - 9761215501
4GB Wide Temperature DRAM (-40°C ~ 95°C)
 - 9761215502
8GB Wide Temperature DRAM (-40°C ~ 95°C)
- **Users should select the wide temperature DRAM above and use wide temperature storage devices if the OMNI panel pc is to be operated at over 40°C.

OMNI-2155-SKU

15.6" Modular HMI Panel PC with 6th Generation Intel® Core™ i5-6300U/ Celeron® 3955U Processor



Features

- 15.6" (1366 x 768) TFT LCD Display
- Intel® 6th Generation i5-6300U/C-3955U Processor
- P-CAP or Resistive Touch Screen Support
- Aluminum Design
- IP65 Compliant Front Bezel
- Fanless Operation
- Power Input Protection: Over-Voltage Protection, Low-Voltage Protection, Reverse-Voltage Protection
- Easily Expandable I/O by AAEON OMNI I/O Modules

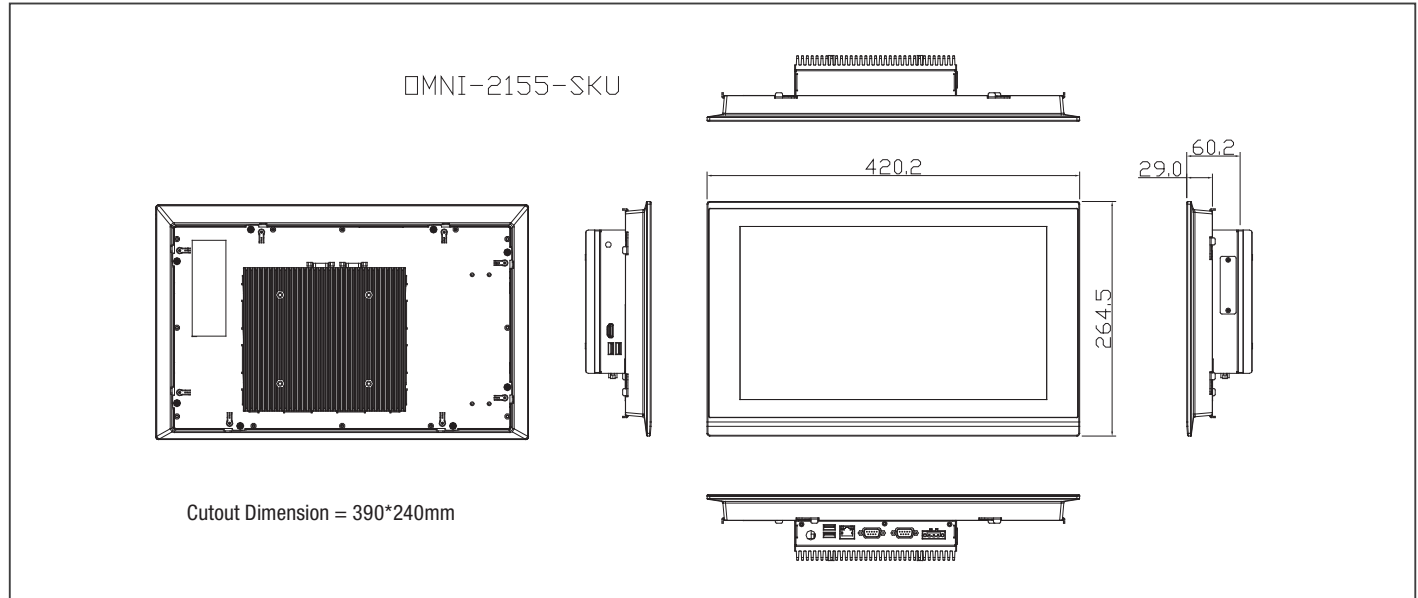


Specifications

System	
Processor	Intel® i5-6300U processor, 2.4 GHz Intel® Celeron® 3955U processor, 2.0 GHz
System Memory	260-pin DDR4 SODIMM x 1, up to 16 GB
LCD/CRT Controller	Integrated in processor
Ethernet	Intel® I211, 10/100/1000 Base-TX x 1
I/O Port	USB 3.2 Gen 1 Type A x 4 SMA Antenna hole x 1 HDMI x 1 DB-9 Type RS-232/422/485 x 2 RJ-45 Type 10/100/1000 Base-TX x 1 3-pin terminal block x1 for 9~30 Vdc power input LED Power on/off switch x1 (Power on = Orange, Power off = N/A)
Storage Disk Drive	2.5" SATA HDD bay x 1
Expansion Slot	Full Size Mini card x 1 SIM card x 1 OMNI I/O connector x 1
OS support	Windows® 8.1 Windows® 10 (64 bit) Linux Kernel 2.6.x or higher
Mechanical	
Construction	Aluminum design (IP65 Front Frame)
Mounting	VESA 100 / Panel Mount
Dimension	16.54" x 10.43" x 2.87" (420 mm x 265 mm x 73 mm)
Carton Dimension	20.87" x 17.52" x 7.87" (530mm x 445mm x 200mm)
Gross Weight	14.96 lb (6.8 kg)
Environmental	
Operating Temperature	-4°F ~ 131°F (-20°C ~ 55°C) with 0.5 m/s airflow (Industrial Grade HDD)
Storage Temperature	-4°F ~ 158°F (-20°C ~ 70°C)
Storage Humidity	90% @40°C; non-condensing
Vibration	1 Grms/ 5~ 500Hz/ operation – with HDD
Shock	15 G peak acceleration (11 msec. duration) – with HDD
EMC	CE/FCC class A
Power Supply	
DC input	DC 9 (min.) ~ 30 (max.) V w/3-pin terminal block, ATX Power function
LCD	
Display Type	15.6" TFT-LCD, LED
Max Resolution	1366 (H) x 768 (V)
Max. Colors	16.7M (8 bit/color)
Luminance	400 cd/m²
Viewing Angle	160 (H), 140 (V)
Back Light	LED
Back Light MTBF (Hours)	50,000
Touchscreen	
Type	P-CAP/ 5-wire resistive
Light Transmission	P-CAP (90% ± 3%), 5-wire Resistive (80% ± 2%)

Dimension

Unit: mm



Ordering Information

	Part Number	Display Type	Max Resolution	Luminance	View Angle	CPU	LAN	USB 3.2 Gen 1	RS-232/422/485	Storage	RAM	Display	Internal Expansion	Mounting	Power	Operating Temp.	Touch	OMNI I/O Module Support
Panel PC	OMNI-2155HTT-SKU-A1-1012	15.6" TFT LCD	1366 x 768	400 cd/m ²	160°(H) 140°(V)	Intel® i5-6300U, 2.4 GHz	1	4	2	2.5" SATA HDD x 1	DDR4, up to 16GB	HDMI x 1	Mini-Card x 1 (Full Size)	VESA 100/ Panel mount	DC 9~30V	-20°C~55°C with airflow	5-wire Resistive	Yes
	OMNI-2155HTT-SKU-A2-1012	15.6" TFT LCD	1366 x 768	400 cd/m ²	160°(H) 140°(V)	Intel® Celeron® 3955U, 2 GHz	1	4	2	2.5" SATA HDD x 1	DDR4, up to 16GB	HDMI x 1	Mini-Card x 1 (Full Size)	VESA 100/ Panel mount	DC 9~30V	-20°C~55°C with airflow	5-wire Resistive	Yes
	OMNI-2155HTT-SKU-A3-1013	15.6" TFT LCD	1366 x 768	400 cd/m ²	160°(H) 140°(V)	Intel® i5-6300U, 2.4 GHz	1	4	2	2.5" SATA HDD x 1	DDR4, up to 16GB	HDMI x 1	Mini-Card x 1 (Full Size)	VESA 100/ Panel mount	DC 9~30V	-20°C~55°C with airflow	Projected capacitive	Yes
	OMNI-2155HTT-SKU-A4-1013	15.6" TFT LCD	1366 x 768	400 cd/m ²	160°(H) 140°(V)	Intel® Celeron® 3955U, 2 GHz	1	4	2	2.5" SATA HDD x 1	DDR4, up to 16GB	HDMI x 1	Mini-Card x 1 (Full Size)	VESA 100/ Panel mount	DC 9~30V	-20°C~55°C with airflow	Projected capacitive	Yes
Panel Kit	OMNI-215DHTT-KIT-A1-1011	15.6" TFT LCD	1366 x 768	400 cd/m ²	160°(H) 140°(V)	—	—	—	—	—	—	—	—	—	—	-20°C~55°C with airflow	5-wire Resistive	No
	OMNI-215DHTT-KIT-A2-1012	15.6" TFT LCD	1366 x 768	400 cd/m ²	160°(H) 140°(V)	—	—	—	—	—	—	—	—	—	—	-20°C~55°C with airflow	Projected capacitive	No
CPU BOX Kit	OMNI-SKU-KIT-A1-1110	—	—	—	—	Intel® i5-6300U, 2.4 GHz	1	4	2	2.5" SATA HDD x 1	DDR4, up to 16GB	HDMI x 1	Mini-Card x 1 (Full Size)	VESA 100/ Panel mount	DC 9~30V	-20°C~55°C with airflow	—	Yes
	OMNI-SKU-KIT-A2-1110	—	—	—	—	Intel® Celeron® 3955U, 2 GHz	1	4	2	2.5" SATA HDD x 1	DDR4, up to 16GB	HDMI x 1	Mini-Card x 1 (Full Size)	VESA 100/ Panel mount	DC 9~30V	-20°C~55°C with airflow	—	Yes
	OMNI-SKU-KIT-A3-1110	—	—	—	—	Intel® i7-6600U Processor	1	4	2	2.5" SATA HDD x 1	DDR4, up to 16GB	HDMI x 1	Mini-Card x 1 (Full Size)	Wall mount	DC 9~30V	-20°C~55°C with airflow	—	Yes
	OMNI-SKU-KIT-A4-1110	—	—	—	—	Intel® i3-6100U Processor	1	4	2	2.5" SATA HDD x 1	DDR4, up to 16GB	HDMI x 1	Mini-Card x 1 (Full Size)	Wall mount	DC 9~30V	-20°C~55°C with airflow	—	Yes

Note: 1. AAEON OMNI Modular display kit only workable for OMNI-BOX Kit 2. RAM not included *

Packing List

- Phoenix Power Connector
- OMNI-2155-SKU

Optional Accessories

- AP-0T9789LA1000
LCD Monitor Stand 230mm, LA-100
- 1702031802
Power Cord (US Type)
- 1702031803
Power Cord (European Type)
- 170203180E
Power Cord (Japanese Type)
- 1255900849
12V 84W Power Adapter w/ 3pin Terminal Block

OMNI Module (with AAEON Interface)

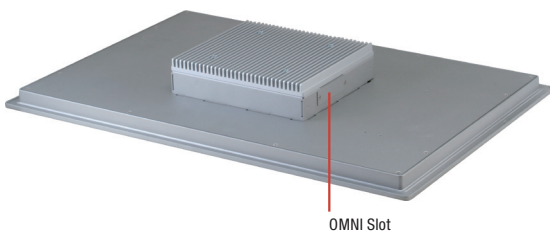
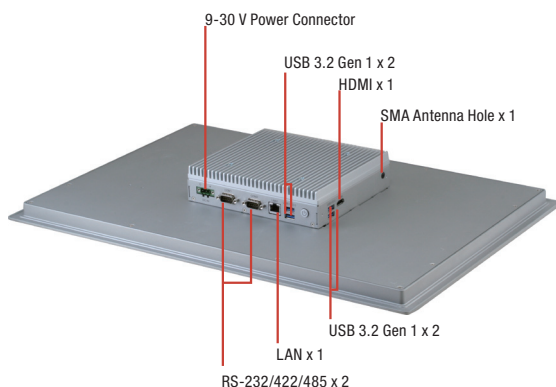
- 9741215501
Mini Card x 2, SIM x 2 Module
- 9741215502
Dual LAN Module
- 9741215506
DIO Module
- 9741215508
Audio Module
- 9741215510
HMS Kit (Europe Limitation)
- 9741215512
Wifi 802.11/b/g/n Module
- 9741215513
RS-485/422/232 x 2 Module
- 9741215515
USB/COM/LAN Module
- 9741215516
RS-485/422/232 x 4 Module
- 9741215517
Isolation RS-485/422/232 x 4 Module
- 9741215518
RS-485/422/232 x 2, DIO x 16 Module

Wide Temperature DRAM

- AP-DR9D4004G00A
4GB Wide Temperature DRAM (-40°C ~ 85°C)
 - 9D4008G001
8GB Wide Temperature DRAM (-40°C ~ 85°C)
 - 968D4016GY
16GB Wide Temperature DRAM (-40°C ~ 85°C)
- **Users should select the wide temperature DRAM above and use wide temperature storage devices if the OMNI panel pc is to be operated at over 40°C.

OMNI-2215-SKU

21.5" Modular HMI Panel PC with 6th Generation Intel® Core™ i5-6300U/C-3955U Processor



Features

- 21.5" (1920 x 1080) TFT LCD Display
- Intel® 6th Generation Core™ i5-6300U/C-3955U Processor
- P-CAP or Resistive Touch Screen Support
- Aluminum Design
- IP65 Compliant Front Bezel
- Fanless Operation
- Easily Expandable I/O by AAEON OMNI I/O Modules

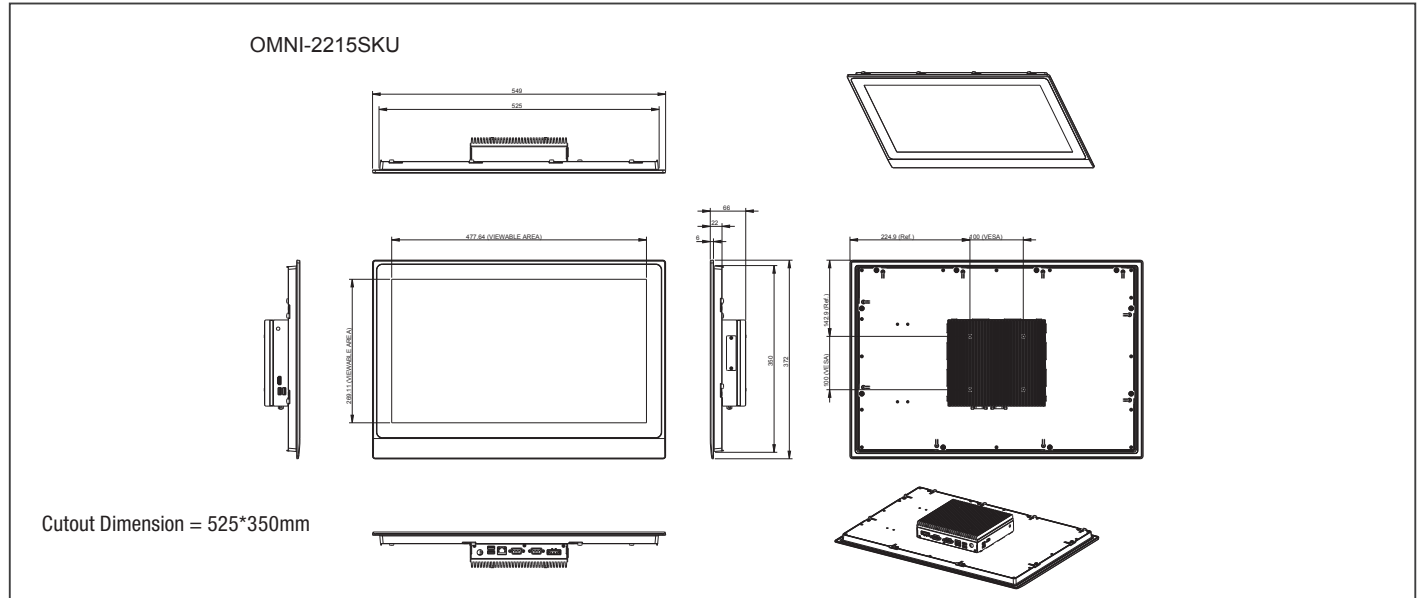


Specifications

System	
Processor	Intel® Core™ i5-6300U processor, 2.4 GHz Intel® Celeron® 3955U processor, 2.0 GHz
System Memory	260-pin DDR4 SODIMM x 1, up to 16 GB
LCD/CRT Controller	Integrated in processor
Ethernet	Intel® I211, 10/100/1000 Base-TX x 1
I/O Port	USB 3.2 Gen 1 Type A x 4 SMA Antenna hole x 1 HDMI x 1 DB-9 Type RS-232/422/485 x 2 RJ-45 Type 10/100/1000 Base-TX x 1 3-pin terminal block x1 for 9~30 Vdc power input LED Power on/off switch x1 (Power on = Orange, Power off = N/A)
Storage Disk Drive	2.5" SATA HDD bay x 1
Expansion Slot	Full Size Mini card x 1 SIM card x 1 OMNI I/O connector x 1
OS support	Windows® 8.1 Windows® 10 (64 bit) Linux Kernel 2.6.x or higher
Mechanical	
Construction	Aluminum design (IP65 Front Frame)
Mounting	VESA 100/ Panel Mount
Dimension	21.7" x 14.7" x 2.6" (550mm x 373mm x 66mm)
Carton Dimension	26.38" x 7.87" x 20.67" (670mm x 200mm x 525mm)
Gross Weight	20.02 lb (9.1 Kg)
Environmental	
Operating Temperature	-4°F ~ 131°F (-20°C ~ 55°C) with 0.5 m/s airflow (Industrial Grade HDD)
Storage Temperature	-4°F ~ 158°F (-20°C ~ 70°C)
Storage Humidity	90% @40°C; non-condensing
Vibration	1 Grms/ 5~ 500Hz/ operation – with HDD
Shock	15 G peak acceleration (11 msec. duration) – with HDD
EMC	CE/FCC class A
Power Supply	
DC input	DC 9 (min.) ~ 30 (max.) V w/3-pin terminal block, ATX Power function
LCD	
Display Type	21.5" TFT-LCD, LED
Max Resolution	1920 (H) x 1080 (V)
Max. Colors	16.7M colors
Luminance	250 cd/m²
Viewing Angle	178 (H), 178 (V)
Back Light	LED
Back Light MTBF (Hours)	50,000
Touchscreen	
Type	P-CAP/ 5-wire resistive
Light Transmission	P-CAP (≥85%), 5-wire Resistive (80% ± 5%)

Dimension

Unit: mm



Ordering Information

	Part Number	Display Type	Max Resolution	Luminance	View Angle	CPU	LAN	USB 3.2 Gen 1	RS-232/422/485	Storage	RAM	Display	Internal Expansion	Mounting	Power	Operating Temp.	Touch	OMNI I/O Module Support
Panel PC	OMNI-2215HTT-SKU-A1-1011	21.5" TFT LCD	1920 x 1080	250 cd/m ²	178°(H) 178°(V)	Intel® i5-6300U, 2.4 GHz	1	4	2	2.5" SATA HDD x 1	DDR4, up to 16GB	HDMI x 1	Mini-Card x 1 (Full Size)	VESA 100/ Panel mount	DC 9~30V	-20°C~55°C with airflow	5-wire Resistive	Yes
	OMNI-2215HTT-SKU-A2-1011	21.5" TFT LCD	1920 x 1080	250 cd/m ²	178°(H) 178°(V)	Intel® Celeron® 3955U, 2 GHz	1	4	2	2.5" SATA HDD x 1	DDR4, up to 16GB	HDMI x 1	Mini-Card x 1 (Full Size)	VESA 100/ Panel mount	DC 9~30V	-20°C~55°C with airflow	5-wire Resistive	Yes
	OMNI-2215HTT-SKU-A3-1012	21.5" TFT LCD	1920 x 1080	250 cd/m ²	178°(H) 178°(V)	Intel® i5-6300U, 2.4 GHz	1	4	2	2.5" SATA HDD x 1	DDR4, up to 16GB	HDMI x 1	Mini-Card x 1 (Full Size)	VESA 100/ Panel mount	DC 9~30V	-20°C~55°C with airflow	Projected capacitive	Yes
	OMNI-2215HTT-SKU-A4-1012	21.5" TFT LCD	1920 x 1080	250 cd/m ²	178°(H) 178°(V)	Intel® Celeron® 3955U, 2 GHz	1	4	2	2.5" SATA HDD x 1	DDR4, up to 16GB	HDMI x 1	Mini-Card x 1 (Full Size)	VESA 100/ Panel mount	DC 9~30V	-20°C~55°C with airflow	Projected capacitive	Yes
Panel Kit	OMNI-221DHTT-KIT-A1-1012	21.5" TFT LCD	1920 x 1080	250 cd/m ²	178°(H) 178°(V)	—	—	—	—	—	—	—	—	—	—	-20°C~55°C with airflow	5-wire Resistive	No
	OMNI-221DHTT-KIT-A2-1013	21.5" TFT LCD	1920 x 1080	250 cd/m ²	178°(H) 178°(V)	—	—	—	—	—	—	—	—	—	—	-20°C~55°C with airflow	Projected capacitive	No
CPU BOX Kit	OMNI-SKU-KIT-A1-1010	—	—	—	—	Intel® i5-6300U, 2.4 GHz	1	4	2	2.5" SATA HDD x 1	DDR4, up to 16GB	HDMI x 1	Mini-Card x 1 (Full Size)	VESA 100/ Panel mount	DC 9~30V	-20°C~55°C with airflow	—	Yes
	OMNI-SKU-KIT-A2-1010	—	—	—	—	Intel® Celeron® 3955U, 2 GHz	1	4	2	2.5" SATA HDD x 1	DDR4, up to 16GB	HDMI x 1	Mini-Card x 1 (Full Size)	VESA 100/ Panel mount	DC 9~30V	-20°C~55°C with airflow	—	Yes
	OMNI-SKU-KIT-A3-1010	—	—	—	—	Intel® i7-6600U Processor	1	4	2	2.5" SATA HDD x 1	DDR4, up to 16GB	HDMI x 1	Mini-Card x 1 (Full Size)	Wall mount	DC 9~30V	-20°C~55°C with airflow	—	Yes
	OMNI-SKU-KIT-A4-1010	—	—	—	—	Intel® i3-6100U Processor	1	4	2	2.5" SATA HDD x 1	DDR4, up to 16GB	HDMI x 1	Mini-Card x 1 (Full Size)	Wall mount	DC 9~30V	-20°C~55°C with airflow	—	Yes

Note: 1. AAEON OMNI Modular display kit only workable for OMNI-BOX Kit 2. RAM not included

Packing List

- Phoenix Power Connector
- OMNI-2215-SKU

Optional Accessories

- **AP-0T9789LA1000**
LCD Monitor Stand 230mm, LA-100
- **1702031802**
Power Cord (US Type)
- **1702031803**
Power Cord (European Type)
- **170203180E**
Power Cord (Japanese Type)
- **1255900849**
12V 84W Power Adapter w/ 3pin Terminal Block

OMNI Module (with AAEON Interface)

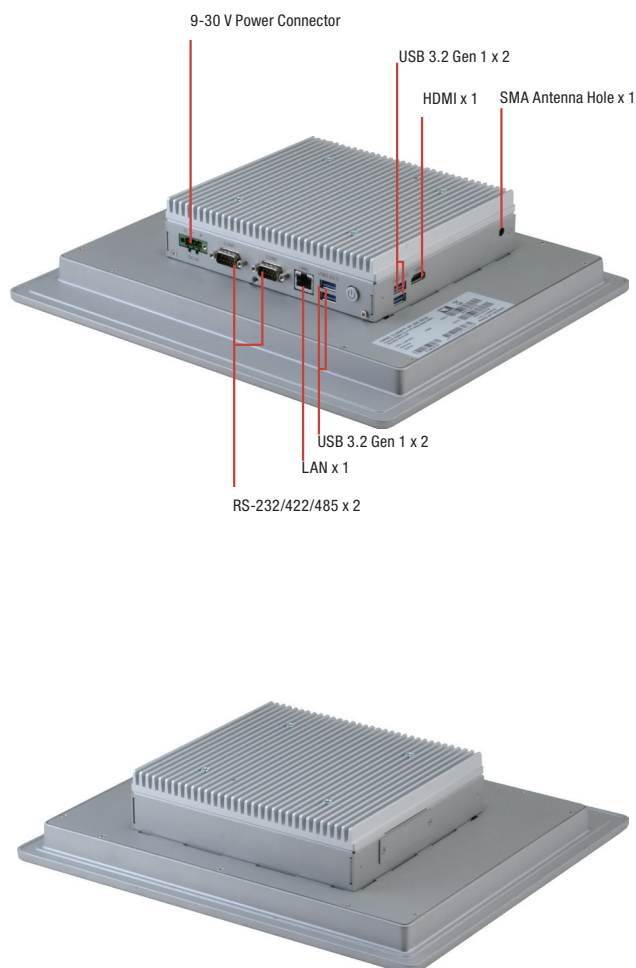
- **9741215501**
Mini Card x 2, SIM x 2 Module
- **9741215502**
Dual LAN Module
- **9741215506**
DIO Module
- **9741215508**
Audio Module
- **9741215510**
HMS Kit (Europe Limitation)
- **9741215512**
Wifi 802.11/b/g/n Module
- **9741215513**
RS-485/422/232 x 2 Module
- **9741215515**
USB/COM/LAN Module
- **9741215516**
RS-485/422/232 x 4 Module
- **9741215517**
Isolation RS-485/422/232 x 4 Module
- **9741215518**
RS-485/422/232 x 2, DIO x 16 Module

Wide Temperature DRAM

- **AP-DR9D4004G00A**
4GB Wide Temperature DRAM (-40°C ~ 85°C)
 - **9D4008G001**
8GB Wide Temperature DRAM (-40°C ~ 85°C)
 - **968D4016GY**
16GB Wide Temperature DRAM (-40°C ~ 85°C)
- **Users should select the wide temperature DRAM above and use wide temperature storage devices if the OMNI panel pc is to be operated at over 40°C.

OMNI-3125-SKU

12.1" Modular HMI Panel PC with 6th Generation Intel® Core™ i5-6300U/C-3955U Processor



Features

- 12.1" (1024 x 768) TFT LCD Display
- Intel® 6th Generation i5-6300U/C-3955U Processor
- P-CAP or Resistive Touch Screen Support
- Aluminum Design
- IP65 Compliant Front Bezel
- Fanless Operation

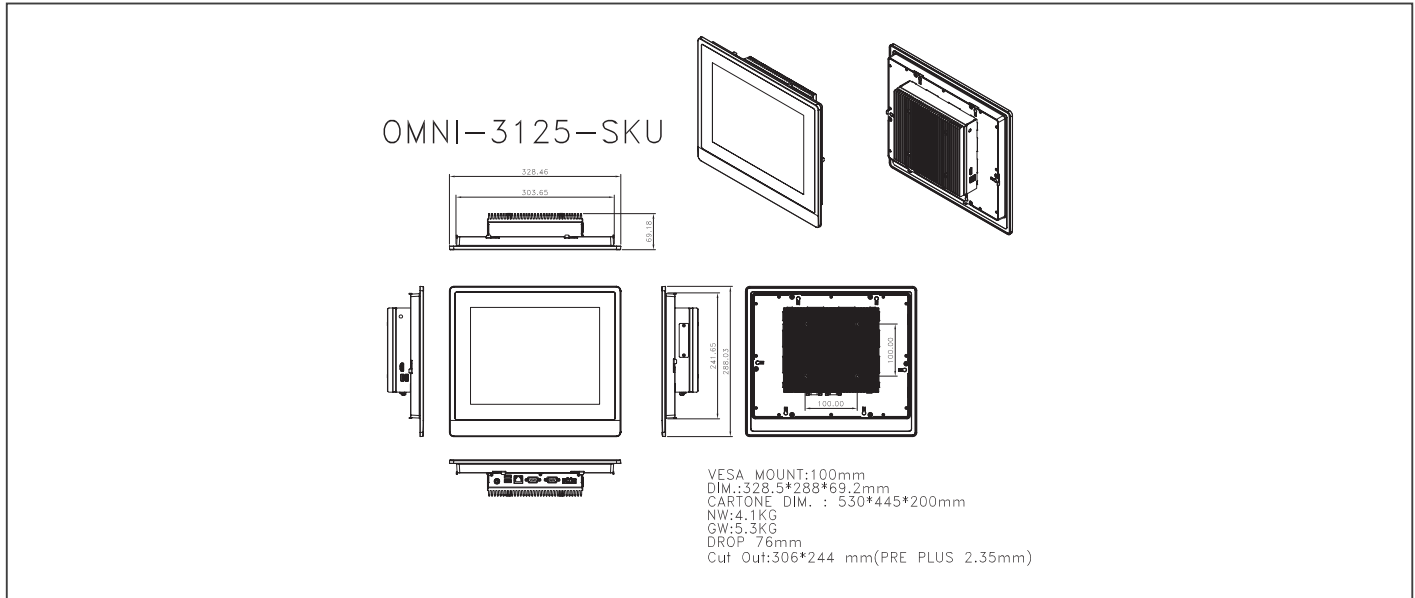


Specifications

System	
Processor	Intel® i5-6300U processor, 2.4 GHz Intel® Celeron® 3955U processor, 2.0 GHz
System Memory	260-pin DDR4 SODIMM x 1, up to 16 GB
LCD/CRT Controller	Integrated in processor
Ethernet	Intel® I211, 10/100/1000 Base-TX x 1
I/O Port	USB 3.2 Gen 1 Type A x 4 SMA Antenna hole x 1 HDMI x 1 DB-9 Type RS-232/422/485 x 2 RJ-45 Type 10/100/1000 Base-TX x 1 3-pin terminal block x1 for 9~30 Vdc power input LED Power on/off switch x1 (Power on = Orange, Power off = N/A)
Storage Disk Drive	2.5" SATA HDD bay x 1
Expansion Slot	Full Size Mini card x 1 SIM card x 1 OMNI I/O connector x 1
OS support	Windows® 8.1 Windows® 10 (64 bit) Linux Kernel 2.6.x or higher
Mechanical	
Construction	Aluminum design (IP65 Front Frame)
Mounting	VESA 100 / Panel Mount
Dimension	12.95" x 11.34" x 2.72" (329mm x 28mm x 69 mm)
Carton Dimension	20.87" x 17.52" x 7.87" (530mm x 445mm x 200mm)
Gross Weight	12.34 lb (5.6 kg)
Environmental	
Operating Temperature	-4°F ~ 131°F (-20°C ~ 55°C) with 0.5 m/s airflow (Industrial Grade HDD)
Storage Temperature	-4°F ~ 158°F (-20°C ~ 70°C)
Storage Humidity	90% @40°C; non-condensing
Vibration	1 Grms/ 5~ 500Hz/ operation – with HDD
Shock	15 G peak acceleration (11 msec. duration) – with HDD
EMC	CE/FCC class A
Power Supply	
DC input	DC 9 (min.) ~ 30 (max.) V w/3-pin terminal block, ATX Power function
LCD	
Display Type	12.1" TFT-LCD, LED
Max Resolution	1024 (H) x 768 (V)
Max. Colors	16.2M colors
Luminance	500 cd/m²
Viewing Angle	160° (H), 160° (V)
Back Light	LED
Back Light MTBF (Hours)	50,000
Touchscreen	
Type	P-CAP/ 5-wire resistive
Light Transmission	P-CAP (90% ± 3%), 5-wire Resistive (80% ± 3%)

Dimension

Unit: mm



Ordering Information

	Part Number	Display Type	Max Resolution	Luminance	View Angle	CPU	LAN	USB 3.2 Gen 1	RS-232/422/485	Storage	RAM	Display	Internal Expansion	Mounting	Power	Operating Temp.	Touch	OMNI I/O Module Support
Panel PC	OMNI-3125HTT-SKU-A1-1110	12.1" TFT LCD	1024 x 768	500 cd/m ²	160°(H) 160°(V)	Intel® i5-6300U, 2.4 GHz	1	4	2	2.5" SATA HDD x 1	DDR4, up to 16GB	HDMI x 1	Mini-Card x 1 (Full Size)	VESA 100/ Panel mount	DC 9~30V	-20°C~55°C with airflow	5-wire Resistive	No
	OMNI-3125HTT-SKU-A2-1110	12.1" TFT LCD	1024 x 768	500 cd/m ²	160°(H) 160°(V)	Intel® Celeron® 3955U, 2 GHz	1	4	2	2.5" SATA HDD x 1	DDR4, up to 16GB	HDMI x 1	Mini-Card x 1 (Full Size)	VESA 100/ Panel mount	DC 9~30V	-20°C~55°C with airflow	5-wire Resistive	No
	OMNI-3125HTT-SKU-A3-1110	12.1" TFT LCD	1024 x 768	500 cd/m ²	160°(H) 160°(V)	Intel® i5-6300U, 2.4 GHz	1	4	2	2.5" SATA HDD x 1	DDR4, up to 16GB	HDMI x 1	Mini-Card x 1 (Full Size)	VESA 100/ Panel mount	DC 9~30V	-20°C~55°C with airflow	Projected capacitive	No
	OMNI-3125HTT-SKU-A4-1110	12.1" TFT LCD	1024 x 768	500 cd/m ²	160°(H) 160°(V)	Intel® Celeron® 3955U, 2 GHz	1	4	2	2.5" SATA HDD x 1	DDR4, up to 16GB	HDMI x 1	Mini-Card x 1 (Full Size)	VESA 100/ Panel mount	DC 9~30V	-20°C~55°C with airflow	Projected capacitive	No
Panel Kit	OMNI-312DHTT-KIT-A1-1011	12.1" TFT LCD	1024 x 768	500 cd/m ²	160°(H) 160°(V)	—	—	—	—	—	—	—	—	—	—	-20°C~55°C with airflow	5-wire Resistive	No
	OMNI-312DHTT-KIT-A2-1011	12.1" TFT LCD	1024 x 768	500 cd/m ²	160°(H) 160°(V)	—	—	—	—	—	—	—	—	—	—	-20°C~55°C with airflow	Projected capacitive	No
CPU BOX Kit	OMNI-SKU-KIT-A1-1110	—	—	—	—	Intel® i5-6300U, 2.4 GHz	1	4	2	2.5" SATA HDD x 1	DDR4, up to 16GB	HDMI x 1	Mini-Card x 1 (Full Size)	VESA 100/ Panel mount	DC 9~30V	-20°C~55°C with airflow	—	Yes
	OMNI-SKU-KIT-A2-1110	—	—	—	—	Intel® Celeron® 3955U, 2 GHz	1	4	2	2.5" SATA HDD x 1	DDR4, up to 16GB	HDMI x 1	Mini-Card x 1 (Full Size)	VESA 100/ Panel mount	DC 9~30V	-20°C~55°C with airflow	—	Yes
	OMNI-SKU-KIT-A3-1110	—	—	—	—	Intel® i7-6600U Processor	1	4	2	2.5" SATA HDD x 1	DDR4, up to 16GB	HDMI x 1	Mini-Card x 1 (Full Size)	Wall mount	DC 9~30V	-20°C~55°C with airflow	—	Yes
	OMNI-SKU-KIT-A4-1110	—	—	—	—	Intel® i3-6100U Processor	1	4	2	2.5" SATA HDD x 1	DDR4, up to 16GB	HDMI x 1	Mini-Card x 1 (Full Size)	Wall mount	DC 9~30V	-20°C~55°C with airflow	—	Yes

Note: 1. AAEON OMNI Modular display kit only workable for OMNI-BOX Kit 2. RAM not included

Packing List

- Phoenix Power Connector
- OMNI-3125-SKU

OMNI Module (with AAEON Interface)

- NA

Optional Accessories

- AP-0T9789LA1000
LCD Monitor Stand 230mm, LA-100
- 1702031802
Power Cord (US Type)
- 1702031803
Power Cord (European Type)
- 170203180E
Power Cord (Japanese Type)
- 1255900849
12V 84W Power Adapter w/ 3pin Terminal Block

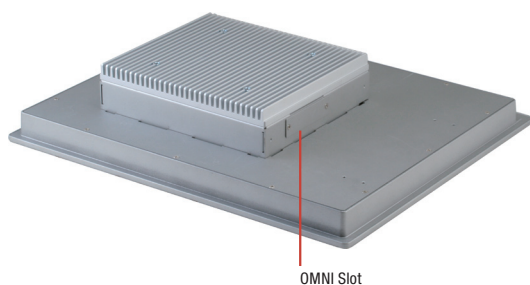
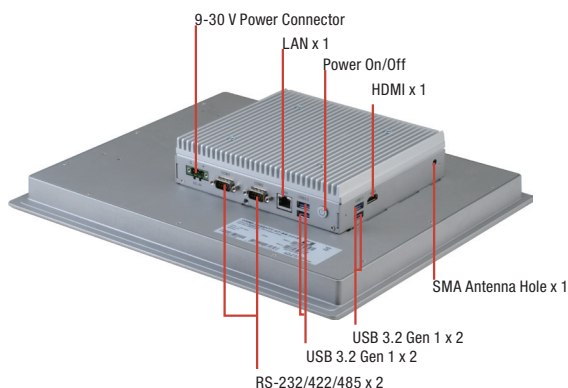
Wide Temperature DRAM

- AP-DR9D4004G00A
4GB Wide Temperature DRAM (-40°C ~ 85°C)
- 9D4008G001
8GB Wide Temperature DRAM (-40°C ~ 85°C)
- 968D4016GY
16GB Wide Temperature DRAM (-40°C ~ 85°C)

**Users should select the wide temperature DRAM above and use wide temperature storage devices if the OMNI panel pc is to be operated at over 40°C.

OMNI-3155-SKU

15" Modular HMI Panel PC with 6th Generation Intel® Core™ i5-6300U/C-3955U Processor



Features

- 15" (1024 x 768) TFT LCD Display
- Intel® 6th Generation i5-6300U/C-3955U Processor
- P-CAP or Resistive Touch Screen Support
- Aluminum Design
- IP65 Compliant Front Bezel
- Fanless Operation
- Easily Expandable I/O by AAEON OMNI I/O Modules

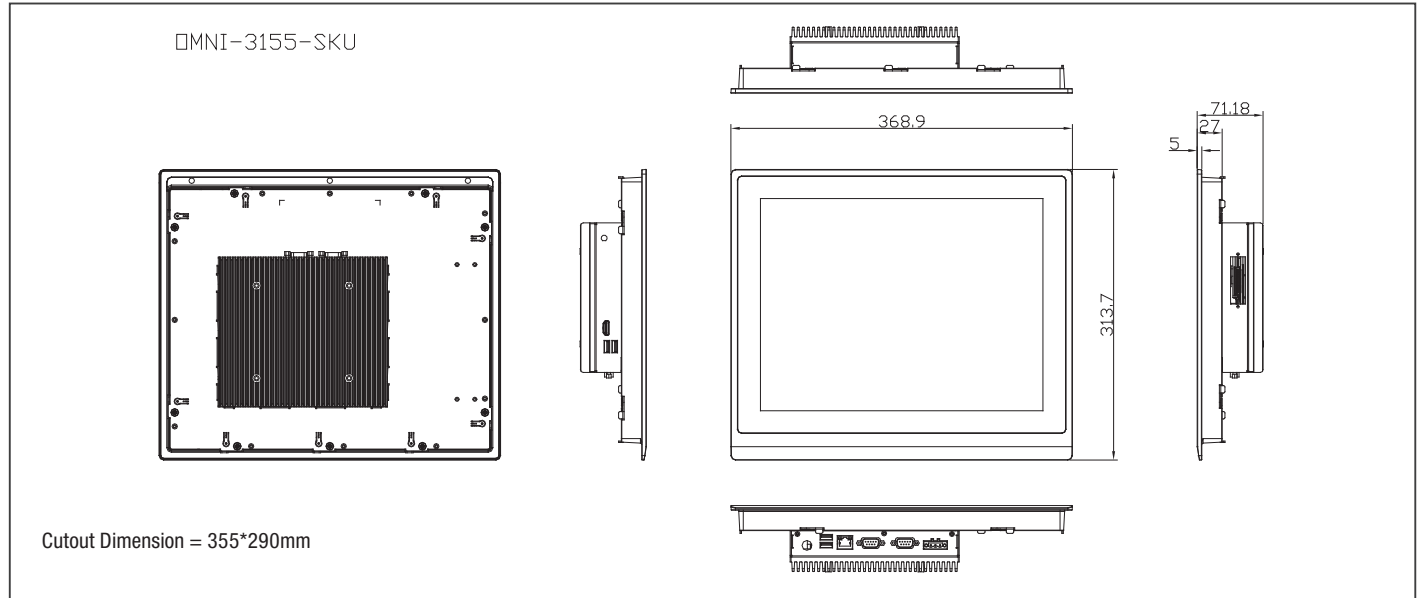


Specifications

System	
Processor	Intel® i5-6300U processor, 2.4 GHz Intel® Celeron® 3955U processor, 2.0 GHz
System Memory	260-pin DDR4 SODIMM x 1, up to 16 GB
LCD/CRT Controller	Integrated in processor
Ethernet	Intel® I211, 10/100/1000 Base-TX x 1
I/O Port	USB 3.2 Gen 1 Type A x 4 SMA Antenna hole x 1 HDMI x 1 DB-9 Type RS-232/422/485 x 2 RJ-45 Type 10/100/1000 Base-TX x 1 3-pin terminal block x1 for 9~30 Vdc power input LED Power on/off switch x1 (Power on = Orange, Power off = N/A)
Storage Disk Drive	2.5" SATA HDD bay x 1
Expansion Slot	Full Size Mini card x 1, SIM card x 1, OMNI I/O connector x 1
OS support	Windows® 8.1, Windows® 10 (64 bit), Linux kernel 2.6.x or higher
Mechanical	
Construction	Aluminum design (IP65 Front Frame)
Mounting	VESA 100/ Panel Mount
Dimension	14.53" x 12.36" x 2.79" (369mm x 314mm x 71 mm)
Carton Dimension	20.08" x 9.84" x 18.11" (510mm x 250mm x 460mm)
Gross Weight	14.3 lb (6.5 kg)
Environmental	
Operating Temperature	-4°F ~ 131°F (-20°C ~ 55°C) with 0.5 m/s airflow (Industrial Grade HDD)
Storage Temperature	-4°F ~ 158°F (-20°C ~ 70°C)
Storage Humidity	90% @40°C; non-condensing
Vibration	1 Grms/ 5~ 500Hz/ operation – with HDD
Shock	15 G peak acceleration (11 msec. duration) – with HDD
EMC	CE/FCC class A
Power Supply	
DC input	DC 9 (min.) ~ 30 (max.) V w/3-pin terminal block, ATX Power function
LCD	
Display Type	15" TFT-LCD, LED
Max Resolution	1024 (H) x 768 (V)
Max. Colors	16.2M (8bit/color)
Luminance	300 cd/m²
Viewing Angle	176° (H), 176° (V)
Back Light	LED
Back Light MTBF (Hours)	70,000
Touchscreen	
Type	P-CAP/ 5-wire resistive
Light Transmission	P-CAP (90%± 2%), 5-wire Resistive (80% ± 2%)

Dimension

Unit: mm



Ordering Information

	Part Number	Display Type	Max Resolution	Luminance	View Angle	CPU	LAN	USB 3.2 Gen 1	RS-232/422/485	Storage	RAM	Display	Internal Expansion	Mounting	Power	Operating Temp.	Touch	OMNI I/O Module Support
Panel PC	OMNI-3155HTT-SKU-A1-1011	15" TFT LCD	1024 x 768	300 cd/m ²	176° (H), 176° (V)	Intel® i5-6300U, 2.4 GHz	1	4	2	2.5" SATA HDD x 1	DDR4, up to 16GB	HDMI x 1	Mini-Card x 1 (Full Size)	VESA 100/ Panel mount	DC 9~30V	-20°C~55°C with airflow	5-wire Resistive	Yes
	OMNI-3155HTT-SKU-A2-1011	15" TFT LCD	1024 x 768	300 cd/m ²	176° (H), 176° (V)	Intel® Celeron® 3955U, 2 GHz	1	4	2	2.5" SATA HDD x 1	DDR4, up to 16GB	HDMI x 1	Mini-Card x 1 (Full Size)	VESA 100/ Panel mount	DC 9~30V	-20°C~55°C with airflow	5-wire Resistive	Yes
	OMNI-3155HTT-SKU-A3-1011	15" TFT LCD	1024 x 768	300 cd/m ²	176° (H), 176° (V)	Intel® i5-6300U, 2.4 GHz	1	4	2	2.5" SATA HDD x 1	DDR4, up to 16GB	HDMI x 1	Mini-Card x 1 (Full Size)	VESA 100/ Panel mount	DC 9~30V	-20°C~55°C with airflow	Projected capacitive	Yes
	OMNI-3155HTT-SKU-A4-1011	15" TFT LCD	1024 x 768	300 cd/m ²	176° (H), 176° (V)	Intel® Celeron® 3955U, 2 GHz	1	4	2	2.5" SATA HDD x 1	DDR4, up to 16GB	HDMI x 1	Mini-Card x 1 (Full Size)	VESA 100/ Panel mount	DC 9~30V	-20°C~55°C with airflow	Projected capacitive	Yes
Panel Kit	OMNI-315DHTT-KIT-A1-1012	15" TFT LCD	1024 x 768	300 cd/m ²	176° (H), 176° (V)	—	—	—	—	—	—	—	—	—	—	-20°C~55°C with airflow	5-wire Resistive	No
	OMNI-315DHTT-KIT-A2-1012	15" TFT LCD	1024 x 768	300 cd/m ²	176° (H), 176° (V)	—	—	—	—	—	—	—	—	—	—	-20°C~55°C with airflow	Projected capacitive	No
CPU BOX Kit	OMNI-SKU-KIT-A1-1010	—	—	—	—	Intel® i5-6300U, 2.4 GHz	1	4	2	2.5" SATA HDD x 1	DDR4, up to 16GB	HDMI x 1	Mini-Card x 1 (Full Size)	VESA 100/ Panel mount	DC 9~30V	-20°C~55°C with airflow	—	Yes
	OMNI-SKU-KIT-A2-1010	—	—	—	—	Intel® Celeron® 3955U, 2 GHz	1	4	2	2.5" SATA HDD x 1	DDR4, up to 16GB	HDMI x 1	Mini-Card x 1 (Full Size)	VESA 100/ Panel mount	DC 9~30V	-20°C~55°C with airflow	—	Yes
	OMNI-SKU-KIT-A3-1010	—	—	—	—	Intel® i7-6600U Processor	1	4	2	2.5" SATA HDD x 1	DDR4, up to 16GB	HDMI x 1	Mini-Card x 1 (Full Size)	Wall mount	DC 9~30V	-20°C~55°C with airflow	—	Yes
	OMNI-SKU-KIT-A4-1010	—	—	—	—	Intel® i3-6100U Processor	1	4	2	2.5" SATA HDD x 1	DDR4, up to 16GB	HDMI x 1	Mini-Card x 1 (Full Size)	Wall mount	DC 9~30V	-20°C~55°C with airflow	—	Yes

Note: 1. AAEON OMNI Modular display kit only workable for OMNI-BOX Kit 2. RAM not included

Packing List

- Phoenix Power Connector
- OMNI-3155-SKU

Optional Accessories

- AP-0T9789LA1000
LCD Monitor Stand 230mm, LA-100
- 1702031802
Power Cord (US Type)
- 1702031803
Power Cord (European Type)
- 170203180E
Power Cord (Japanese Type)
- 1255900849
12V 84W Power Adapter w/ 3pin Terminal Block

OMNI Module (with AAEON Interface)

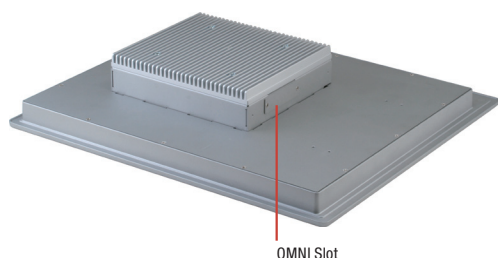
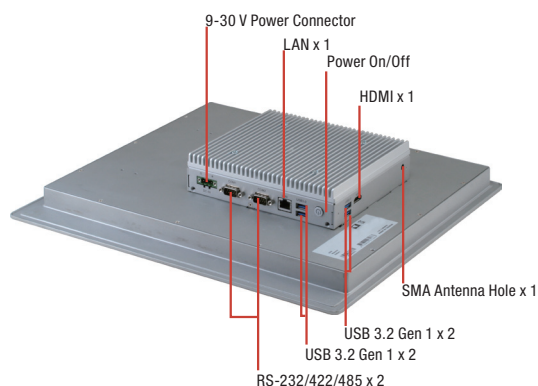
- 9741215501
Mini Card x 2, SIM x 2 Module
- 9741215502
Dual LAN Module
- 9741215506
DIO Module
- 9741215508
Audio Module
- 9741215510
HMS Kit (Europe Limitation)
- 9741215512
Wifi 802.11/b/g/n Module
- 9741215513
RS-485/422/232 x 2 Module
- 9741215515
USB / COM / LAN Module
- 9741215516
RS-485/422/232 x 4 Module
- 9741215517
Isolation RS-485/422/232 x 4 Module
- 9741215518
RS-485/422/232 x 2, DIO x 16 Module

Wide Temperature DRAM

- AP-DR9D4004G00A
4GB Wide Temperature DRAM (-40°C ~ 85°C)
 - 9D4008G001
8GB Wide Temperature DRAM (-40°C ~ 85°C)
 - 968D4016GY7
16GB Wide Temperature DRAM (-40°C ~ 85°C)
- **Users should select the wide temperature DRAM above and use wide temperature storage devices if the OMNI panel pc is to be operated at over 40°C.

OMNI-3175-SKU

17" Modular HMI Panel PC with 6th Generation Intel® Core™ i5-6300U/C-3955U Processor



Features

- 17" (1280 x 1024) TFT LCD Display
- Intel® 6th Generation i5-6300U/C-3955U Processor
- P-CAP or Resistive Touch Screen Support
- Aluminum Design
- IP65 Compliant Front Bezel
- Fanless Operation
- Easily Expandable I/O by AAEON OMNI I/O Modules



Specifications

System	
Processor	Intel® i5-6300U processor, 2.4 GHz Intel® Celeron® 3955U processor, 2.0 GHz
System Memory	260-pin DDR4 SODIMM x 1, up to 16 GB
LCD/CRT Controller	Integrated in processor
Ethernet	Intel® I211, 10/100/1000 Base-TX x 1
I/O Port	USB 3.2 Gen 1 Type A x 4 SMA Antenna hole x 1 HDMI x 1 DB-9 Type RS-232/422/485 x 2 RJ-45 Type 10/100/1000 Base-TX x 1 3-pin terminal block x1 for 9~30 Vdc power input LED Power on/off switch x1 (Power on = Orange, Power off = N/A)
Storage Disk Drive	2.5" SATA HDD bay x 1
Expansion Slot	Full Size Mini card x 1 SIM card x 1 OMNI I/O connector x 1
OS support	Windows® 8.1, Windows® 10 (64 bit), Linux kernel 2.6.x or higher
Mechanical	
Construction	Aluminum design (IP65 Front Frame)
Mounting	VESA 100 / Panel Mount
Dimension	16.14" x 14.57" x 2.32" (410mm x 370mm x 59mm)
Carton Dimension	20.55" x 10.31" x 19.29" (522mm x 262mm x 490mm)
Gross Weight	16.28 lb (7.4 kg)
Environmental	
Operating Temperature	-4°F ~ 131°F (-20°C ~ 55°C) with 0.5 m/s airflow (Industrial Grade HDD)
Storage Temperature	-4°F ~ 158°F (-20°C ~ 70°C)
Storage Humidity	90% @40°C; non-condensing
Vibration	1 Grms/ 5~ 500Hz/ operation – with HDD
Shock	15 G peak acceleration (11 msec. duration) – with HDD
EMC	CE/FCC class A
Power Supply	
DC input	DC 9 (min.) ~ 30 (max.) V w/3-pin terminal block, ATX Power function
LCD	
Display Type	17" TFT-LCD, LED
Max Resolution	1280 (H) x 1024 (V)
Max. Colors	16.7M colors (RGB 6-bits + Hi-FRC data)
Luminance	350 cd/m²
Viewing Angle	170 (H), 160 (V)
Back Light	LED
Back Light MTBF (Hours)	50,000
Touchscreen	
Type	P-CAP/ 5-wire resistive
Light Transmission	P-CAP (90% ± 3%), 5-wire Resistive (80% ± 3%)



	Part Number	Display Type	Max Resolution	Luminance	View Angle	CPU	LAN	USB 3.2 Gen 1	RS-232/422/485	Storage	RAM	Display	Internal Expansion	Mounting	Power	Operating Temp.	Touch	OMNI I/O Module Support
Panel PC	OMNI-3175HTT-SKU-A1-1111	17" TFT LCD	1280 x 1024	350 cd/m²	170°(H) 160°(V)	Intel® i5-6300U, 2.4 GHz	1	4	2	2.5" SATA HDD x 1	DDR4, up to 16GB	HDMI x 1	Mini-Card x 1 (Full Size)	VESA 100/ Panel mount	DC 9~30V	-20°C~55°C with airflow	5-wire Resistive	Yes
	OMNI-3175HTT-SKU-A2-1111	17" TFT LCD	1280 x 1024	350 cd/m²	170°(H) 160°(V)	Intel® Celeron® 3955U, 2 GHz	1	4	2	2.5" SATA HDD x 1	DDR4, up to 16GB	HDMI x 1	Mini-Card x 1 (Full Size)	VESA 100/ Panel mount	DC 9~30V	-20°C~55°C with airflow	5-wire Resistive	Yes
	OMNI-3175HTT-SKU-A3-1110	17" TFT LCD	1280 x 1024	350 cd/m²	170°(H) 160°(V)	Intel® i5-6300U, 2.4 GHz	1	4	2	2.5" SATA HDD x 1	DDR4, up to 16GB	HDMI x 1	Mini-Card x 1 (Full Size)	VESA 100/ Panel mount	DC 9~30V	-20°C~55°C with airflow	Projected capacitive	Yes
	OMNI-3175HTT-SKU-A4-1110	17" TFT LCD	1280 x 1024	350 cd/m²	170°(H) 160°(V)	Intel® Celeron® 3955U, 2 GHz	1	4	2	2.5" SATA HDD x 1	DDR4, up to 16GB	HDMI x 1	Mini-Card x 1 (Full Size)	VESA 100/ Panel mount	DC 9~30V	-20°C~55°C with airflow	Projected capacitive	Yes
Panel Kit	OMNI-317DHTT-KIT-A1-1012	17" TFT LCD	1280 x 1024	350 cd/m²	170°(H) 160°(V)	—	—	—	—	—	—	—	—	—	—	-20°C~55°C with airflow	5-wire Resistive	No
	OMNI-317DHTT-KIT-A2-1011	17" TFT LCD	1280 x 1024	350 cd/m²	170°(H) 160°(V)	—	—	—	—	—	—	—	—	—	—	-20°C~55°C with airflow	Projected capacitive	No
CPU BOX Kit	OMNI-SKU-KIT-A1-1110	—	—	—	—	Intel® i5-6300U, 2.4 GHz	1	4	2	2.5" SATA HDD x 1	DDR4, up to 16GB	HDMI x 1	Mini-Card x 1 (Full Size)	VESA 100/ Panel mount	DC 9~30V	-20°C~55°C with airflow	—	Yes
	OMNI-SKU-KIT-A2-1110	—	—	—	—	Intel® Celeron® 3955U, 2 GHz	1	4	2	2.5" SATA HDD x 1	DDR4, up to 16GB	HDMI x 1	Mini-Card x 1 (Full Size)	VESA 100/ Panel mount	DC 9~30V	-20°C~55°C with airflow	—	Yes
	OMNI-SKU-KIT-A3-1110	—	—	—	—	Intel® i7-6600U Processor	1	4	2	2.5" SATA HDD x 1	DDR4, up to 16GB	HDMI x 1	Mini-Card x 1 (Full Size)	Wall mount	DC 9~30V	-20°C~55°C with airflow	—	Yes
	OMNI-SKU-KIT-A4-1110	—	—	—	—	Intel® i3-6100U Processor	1	4	2	2.5" SATA HDD x 1	DDR4, up to 16GB	HDMI x 1	Mini-Card x 1 (Full Size)	Wall mount	DC 9~30V	-20°C~55°C with airflow	—	Yes

Note: 1. AAEON OMNI Modular display kit only workable for OMNI-BOX Kit 2. RAM not included

- Phoenix Power Connector
- OMNI-3175-SKU

- **AP-OT9789LA1000**
LCD Monitor Stand 230mm, LA-100
- **1702031802**
Power Cord (US Type)
- **1702031803**
Power Cord (European Type)

- **170203180E**
Power Cord (Japanese Type)
- **1255900849**
12V 84W Power Adapter w/ 3pin Terminal Block

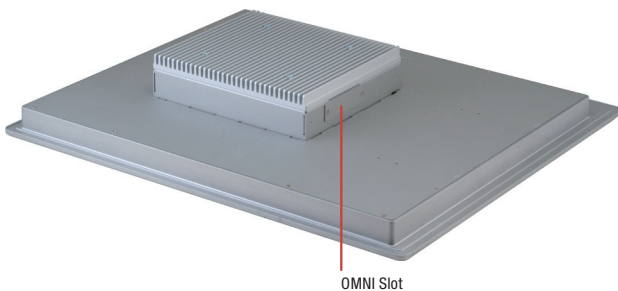
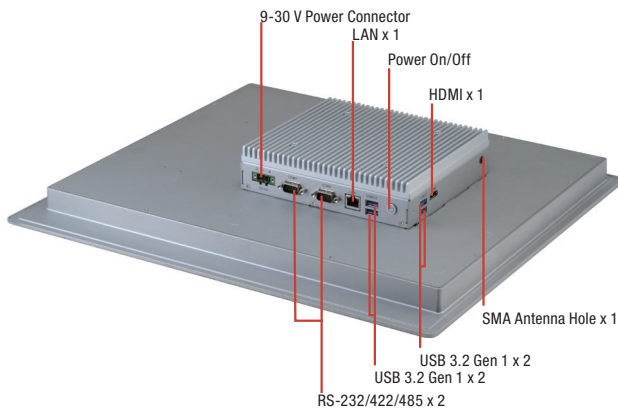
● 9741215501 Mini Card x 2, SIM x 2 Module	● 9741215510 HMS Kit (Europe Limitation)	● 9741215516 RS-485/422/232 x 4 Module
● 9741215502 Dual LAN Module	● 9741215512 Wifi 802.11b/g/n Module	● 9741215517 Isolation RS-485/422/232 x 4 Module
● 9741215506 DIO Module	● 9741215513 RS-485/422/232 x 2 Module	● 9741215518 RS-485/422/232 x 2, DIO x 16 Module
● 9741215508 Audio Module	● 9741215515 USB / COM / LAN Module	

- **AP-DR9D4004G00A**
4GB Wide Temperature DRAM (-40°C ~ 85°C)
- **9D4008G001**
8GB Wide Temperature DRAM (-40°C ~ 85°C)
- **968D4016GY**
16GB Wide Temperature DRAM (-40°C ~ 85°C)

****Users should select the wide temperature DRAM above and use wide temperature storage devices if**

OMNI-3195-SKU

19" Modular HMI Panel PC with 6th Generation Intel® Core™ i5-6300U/C-3955U Processor



Features

- 19" (1280 x 1024) TFT LCD Display
- Intel® 6th Generation i5-6300U/C-3955U Processor
- P-CAP or Resistive Touch Screen Support
- Aluminum Design
- IP65 Compliant Front Bezel
- Fanless Operation
- Easily Expandable I/O by AAEON OMNI I/O Modules

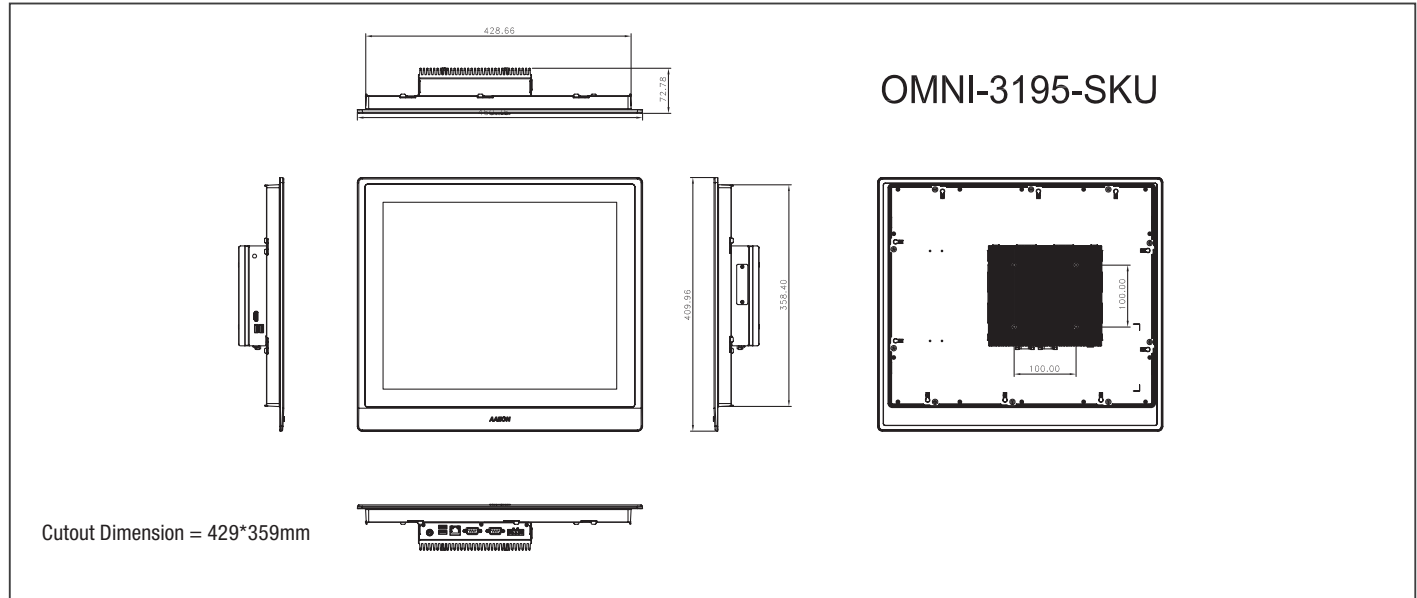


Specifications

System	
Processor	Intel® i5-6300U processor, 2.4 GHz Intel® Celeron® 3955U processor, 2.0 GHz
System Memory	260-pin DDR4 SODIMM x 1, up to 16 GB
LCD/CRT Controller	Integrated in processor
Ethernet	Intel® I211, 10/100/1000 Base-TX x 1
I/O Port	USB 3.2 Gen 1 Type A x 4 SMA Antenna hole x 1 HDMI x 1 DB-9 Type RS-232/422/485 x 2 RJ-45 Type 10/100/1000Base-TX x 1 3-pin terminal block x1 for 9~30 Vdc power input LED Power on/off switch x1 (Power on = Orange, Power off = N/A)
Storage Disk Drive	2.5" SATA HDD bay x 1
Expansion Slot	Full Size Mini card x 1 SIM card x 1 OMNI I/O connector x 1
OS support	Windows® 8.1, Windows® 10 (64 bit), Linux kernel 2.6.x or higher
Mechanical	
Construction	Aluminum design (IP65 Front Frame)
Mounting	VESA 100 / Panel Mount
Dimension	18.14" x 16.14" x 2.83" (460.8mm x 410mm x 72 mm)
Carton Dimension	26.02" x 8.11" x 19.53" (661mm x 206mm x 496mm)
Gross Weight	20.06 lb (9.1 kg)
Environmental	
Operating Temperature	-4°F ~ 131°F (-20°C ~ 55°C) with 0.5 m/s airflow (Industrial Grade HDD)
Storage Temperature	-4°F ~ 158°F (-20°C ~ 70°C)
Storage Humidity	90% @40°C; non-condensing
Vibration	1 Grms/ 5~ 500Hz/ operation – with HDD
Shock	15 G peak acceleration (11 msec. duration) – with HDD
EMC	CE/FCC class A
Power Supply	
DC input	DC 9 (min.) ~ 30 (max.) V w/3-pin terminal block, ATX Power function
LCD	
Display Type	17" TFT-LCD, LED
Max Resolution	1280 (H) x 1024 (V)
Max. Colors	16.7M colors (RGB 6-bits + Hi-FRC data)
Luminance	350 cd/m²
Viewing Angle	170 (H), 160 (V)
Back Light	LED
Back Light MTBF (Hours)	50,000
Touchscreen	
Type	P-CAP/ 5-wire resistive
Light Transmission	P-CAP (90% ± 3%), 5-wire Resistive (80% ± 3%)

Dimension

Unit: mm



Ordering Information

	Part Number	Display Type	Max Resolution	Luminance	View Angle	CPU	LAN	USB 3.2 Gen 1	RS-232/422/485	Storage	RAM	Display	Internal Expansion	Mounting	Power	Operating Temp.	Touch	OMNI I/O Module Support
Panel PC	OMNI-3195HTT-SKU-A1-1111	19" TFT LCD	1280 x 1024	350 cd/m ²	170°(H) 160°(V)	Intel® i5-6300U, 2.4 GHz	1	4	2	2.5" SATA HDD x 1	DDR4, up to 16GB	HDMI x 1	Mini-Card x 1 (Full Size)	VESA 100/ Panel mount	DC 9~30V	-20°C~55°C with airflow	5-wire Resistive	Yes
	OMNI-3195HTT-SKU-A2-1111	19" TFT LCD	1280 x 1024	350 cd/m ²	170°(H) 160°(V)	Intel® Celeron® 3955U, 2 GHz	1	4	2	2.5" SATA HDD x 1	DDR4, up to 16GB	HDMI x 1	Mini-Card x 1 (Full Size)	VESA 100/ Panel mount	DC 9~30V	-20°C~55°C with airflow	5-wire Resistive	Yes
	OMNI-3195HTT-SKU-A3-1110	19" TFT LCD	1280 x 1024	350 cd/m ²	170°(H) 160°(V)	Intel® i5-6300U, 2.4 GHz	1	4	2	2.5" SATA HDD x 1	DDR4, up to 16GB	HDMI x 1	Mini-Card x 1 (Full Size)	VESA 100/ Panel mount	DC 9~30V	-20°C~55°C with airflow	Projected capacitive	Yes
	OMNI-3195HTT-SKU-A4-1110	19" TFT LCD	1280 x 1024	350 cd/m ²	170°(H) 160°(V)	Intel® Celeron® 3955U, 2 GHz	1	4	2	2.5" SATA HDD x 1	DDR4, up to 16GB	HDMI x 1	Mini-Card x 1 (Full Size)	VESA 100/ Panel mount	DC 9~30V	-20°C~55°C with airflow	Projected capacitive	Yes
Panel Kit	OMNI-319DHTT-KIT-A1-1012	19" TFT LCD	1280 x 1024	350 cd/m ²	170°(H) 160°(V)	—	—	—	—	—	—	—	—	—	—	-20°C~55°C with airflow	5-wire Resistive	No
	OMNI-319DHTT-KIT-A2-1011	19" TFT LCD	1280 x 1024	350 cd/m ²	170°(H) 160°(V)	—	—	—	—	—	—	—	—	—	—	-20°C~55°C with airflow	Projected capacitive	No
CPU BOX Kit	OMNI-SKU-KIT-A1-1110	—	—	—	—	Intel® i5-6300U, 2.4 GHz	1	4	2	2.5" SATA HDD x 1	DDR4, up to 16GB	HDMI x 1	Mini-Card x 1 (Full Size)	VESA 100/ Panel mount	DC 9~30V	-20°C~55°C with airflow	—	Yes
	OMNI-SKU-KIT-A2-1110	—	—	—	—	Intel® Celeron® 3955U, 2 GHz	1	4	2	2.5" SATA HDD x 1	DDR4, up to 16GB	HDMI x 1	Mini-Card x 1 (Full Size)	VESA 100/ Panel mount	DC 9~30V	-20°C~55°C with airflow	—	Yes
	OMNI-SKU-KIT-A3-1110	—	—	—	—	Intel® i7-6600U Processor	1	4	2	2.5" SATA HDD x 1	DDR4, up to 16GB	HDMI x 1	Mini-Card x 1 (Full Size)	Wall mount	DC 9~30V	-20°C~55°C with airflow	—	Yes
	OMNI-SKU-KIT-A4-1110	—	—	—	—	Intel® i3-6100U Processor	1	4	2	2.5" SATA HDD x 1	DDR4, up to 16GB	HDMI x 1	Mini-Card x 1 (Full Size)	Wall mount	DC 9~30V	-20°C~55°C with airflow	—	Yes

Note: 1. AAEON OMNI Modular display kit only workable for OMNI-BOX Kit 2. RAM not included

Packing List

- Phoenix Power Connector
- OMNI-3195-SKU

Optional Accessories

- **AP-0T9789LA1000**
LCD Monitor Stand 230mm, LA-100
- **1702031802**
Power Cord (US Type)
- **1702031803**
Power Cord (European Type)
- **170203180E**
Power Cord (Japanese Type)
- **1255900849**
12V 84W Power Adapter w/ 3pin Terminal Block

OMNI Module (with AAEON Interface)

- **9741215501**
Mini Card x 2, SIM x 2 Module
- **9741215502**
Dual LAN Module
- **9741215506**
DIO Module
- **9741215508**
Audio Module
- **9741215510**
HMS Kit (Europe Limitation)
- **9741215512**
Wifi 802.11/b/g/n Module
- **9741215513**
RS-485/422/232 x 2 Module
- **9741215515**
USB / COM / LAN Module
- **9741215516**
RS-485/422/232 x 4 Module
- **9741215517**
Isolation RS-485/422/232 x 4 Module
- **9741215518**
RS-485/422/232 x 2, DIO x 16 Module

Wide Temperature DRAM

- **AP-DR9D4004G00A**
4GB Wide Temperature DRAM (-40°C ~ 85°C)
 - **9D4008G001**
8GB Wide Temperature DRAM (-40°C ~ 85°C)
 - **968D4016GY**
16GB Wide Temperature DRAM (-40°C ~ 85°C)
- **Users should select the wide temperature DRAM above and use wide temperature storage devices if the OMNI panel pc is to be operated at over 40°C.

OMNI-3155-ADP PRELIMINARY

15" Modular HMI Panel PC with Intel® Alder Lake-P i7/i5/i3/Celeron Processor

Launching in Q1

Features

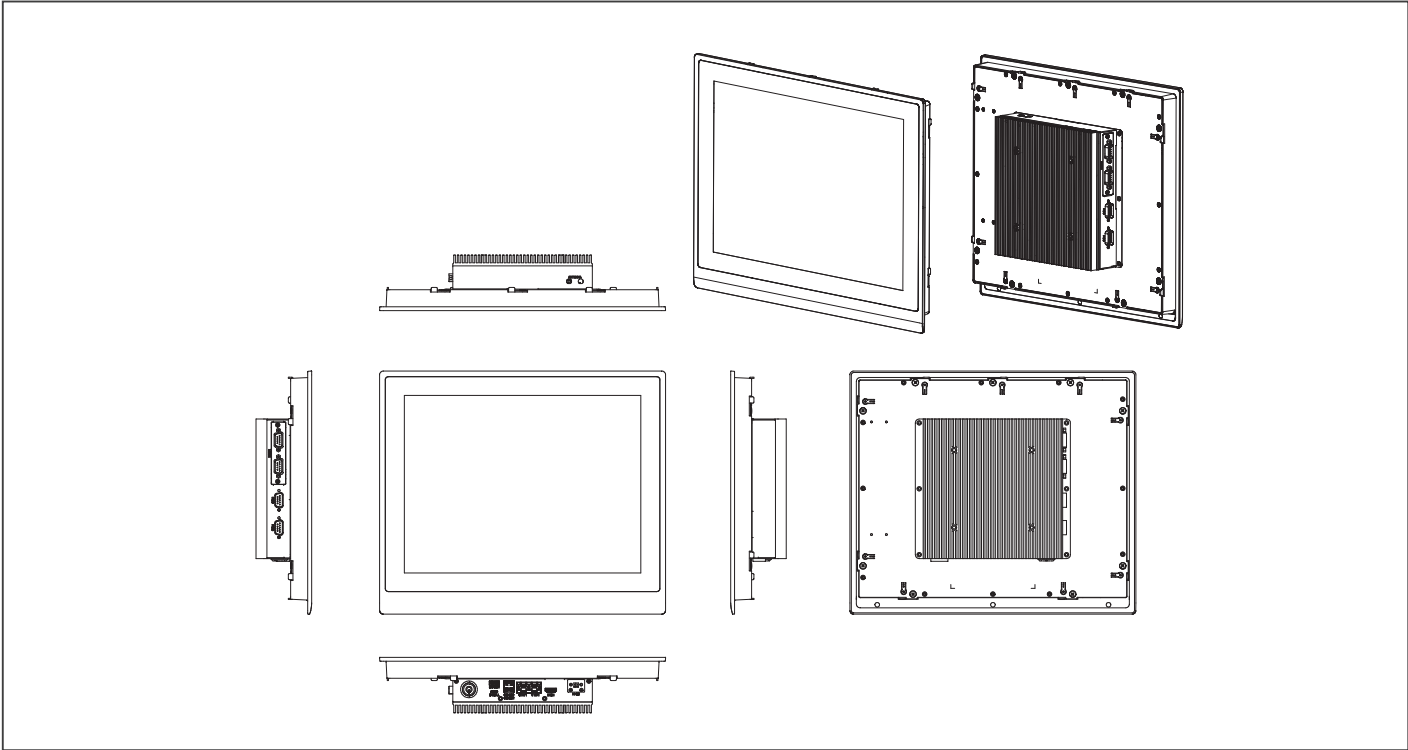
- 15" (1024 x 768) TFT LCD Display
- Intel® Alder Lake-P i7/i5/i3/Celeron CPU (max. 15W TDP)
- P-CAP or Resistive Touch Screen Support
- M.2 PCIe x 4 SSD
- Aluminum Design
- IP65 Compliant Front Bezel
- Fanless Operation
- VESA Mount/ Built-in Panel Mount Bracket
- 9 - 36V DC in a wide range of input



System	
Processor	Intel® Alder Lake-P i7/i5/i3/Celeron CPU
System Memory	DDR5 4800 MHz, Dual Channel SODIMM x 2
LCD/CRT Controller	—
Ethernet	Intel® i210/i211, 10/100/1000Base Intel® i225, 10/100/1000/2500Base
I/O Port	RJ45 LAN x2 USB Type A USB 3.2 Gen2 x3 USB Type C x1 HDMI 2.0b x 1 Audio x1 DB9 COM RS-232/422/485 x2
Storage Disk Drive	2.5" SATA-III x1 (6 Gb/s, for 2.5" SATA drive bay) M.2 2280 NVMe x1 (For PCIe4 NVMe Storage)
Expansion Slot	B-Key 3052 x 1 (BOM Optional: PCIe x 2), default: USB3.2 Gne2+SATA E-Key 2230 x 1 (PCIe, USB2.0)
OS support	Windows 10/Windows 11/Linux
Mechanical	
Construction	Aluminum Front Bezel + Metal Chassis
Mounting	VESA / Panel Mount
Dimension	TBD
Carton Dimension	TBD
Gross Weight	TBD
Environmental	
Operating Temperature	-4°F~122°F (-20°C~50°C) with airflow
Storage Temperature	-4°F~140°F (-20°C~60°C)
Storage Humidity	90% @40°C; non-condensing
Vibration	1Grms / 5~ 500Hz / operation
Shock	15 G peak acceleration (11 msec. duration)
EMC	CE/FCC Class A Compatible
Power Supply	
DC input	DC 9~36V
LCD	
Display Type	15" TFT-LCD, LED
Max Resolution	1024(H) x 768(V)
Max. Colors	16.2M (8 bit/color)
Luminance	300 cd/m²
Viewing Angle	176° (H), 176° (V)
Back Light	LED
Back Light MTBF (Hours)	70,000
Touchscreen	
Type	P-CAP/ 5-wire resistive
Light Transmission	P-CAP (90% ± 2%), 5-wire Resistive (80% ± 2%)

Dimension

Unit: mm



Optional Accessories

- TBD

Packing List

- TBD

Ordering Information

- TBD

OMNI-2155-ADP PRELIMINARY

15.6" Modular HMI Panel PC with Intel® Alder Lake-P i7/i5/i3/Celeron Processor

Launching in Q1

Features

- 15.6" (1366 x 768) TFT LCD Display
- Intel® Alder Lake-P i7/i5/i3/Celeron CPU (max. 15W TDP)
- P-CAP or Resistive Touch Screen Support
- M.2 PCIe x 4 SSD
- Aluminum Design
- IP65 Compliant Front Bezel
- Fanless Operation
- VESA Mount/ Built-in Panel Mount Bracket
- 9 - 36V DC in a wide range of input



System	
Processor	Intel® Alder Lake-P i7/i5/i3/Celeron CPU
System Memory	DDR5 4800 MHz, Dual Channel SODIMM x 2
LCD/CRT Controller	—
Ethernet	Intel® i210/i211, 10/100/1000Base Intel® i225, 10/100/1000/2500Base
I/O Port	RJ45 LAN x2 USB Type A USB 3.2 Gen2 x3 USB Type C x1 HDMI 2.0b x 1 Audio x1 DB9 COM RS-232/422/485 x2
Storage Disk Drive	2.5" SATA-III x1 (6 Gb/s, for 2.5" SATA drive bay) M.2 2280 NVMe x1 (For PCIe4 NVMe Storage)*
Expansion Slot	B-Key 3052 x 1 (BOM Optional: PCIe x 2), default: USB3.2 Gne2+SATA E-Key 2230 x 1 (PCIe, USB2.0)
OS support	Windows 10/Windows 11/Linux
Mechanical	
Construction	Aluminum Front Bezel + Metal Chassis
Mounting	VESA / Panel Mount
Dimension	TBD
Carton Dimension	TBD
Gross Weight	TBD
Environmental	
Operating Temperature	-4°F~122°F (-20°C~50°C) with airflow
Storage Temperature	-4°F~140°F (-20°C~60°C)
Storage Humidity	90% @40°C; non-condensing
Vibration	1Grms / 5~ 500Hz / operation
Shock	15 G peak acceleration (11 msec. duration)
EMC	CE/FCC Class A Compatible
Power Supply	
DC input	DC 9~36V
LCD	
Display Type	15.6" TFT-LCD, LED
Max Resolution	1366 (H) x 768 (V)
Max. Colors	16.7M (8 bit/color)
Luminance	400 cd/m ²
Viewing Angle	170° (H) ; 130° (V)
Back Light	LED
Back Light MTBF (Hours)	50,000 Hrs
Touchscreen	
Type	P-CAP/ 5-wire resistive
Light Transmission	P-CAP (90% ± 3%), 5-wire Resistive (80% ± 3%)

Optional Accessories

- TBD

Packing List

- TBD

Ordering Information

- TBD

21.5" Modular HMI Panel PC with Intel® Alder Lake-P i7/i5/i3/Celeron Processor

Launching in Q1

Features

- 21.5" (1920 x 1080) TFT LCD Display
- Intel® Alder Lake-P i7/i5/i3/Celeron CPU (max. 15W TDP)
- P-CAP or Resistive Touch Screen Support
- M.2 PCIe x 4 SSD
- Aluminum Design
- IP65 Compliant Front Bezel
- Fanless Operation
- VESA Mount/ Built-in Panel Mount Bracket
- 9 - 36V DC in a wide range of input

1000
Giga LAN2500
2.5Giga LAN

USB 3.2 Gen 2



HDMI



Wide Voltage



DDR 5



CE FCC

System	
Processor	Intel® Alder Lake-P i7/i5/i3/Celeron CPU
System Memory	DDR5 4800 MHz, Dual Channel SODIMM x 2
LCD/CRT Controller	—
Ethernet	Intel® i210/i211, 10/100/1000Base Intel® i225, 10/100/1000/2500Base
I/O Port	RJ45 LAN x2 USB Type A USB 3.2 Gen2 x3 USB Type C x1 HDMI 2.0b x 1 Audio x1 DB9 COM RS-232/422/485 x2
Storage Disk Drive	2.5" SATA-III x1 (6 Gb/s, for 2.5" SATA drive bay) M.2 2280 NVMe x1 (For PCIe4 NVMe Storage)
Expansion Slot	B-Key 3052 x 1 (BOM Optional: PCIe x 2), default: USB3.2 Gne2+SATA E-Key 2230 x 1 (PCIe, USB2.0)
OS support	Windows 10/Windows 11/Linux
Mechanical	
Construction	Aluminum Front Bezel + Metal Chassis
Mounting	VESA / Panel Mount
Dimension	TBD
Carton Dimension	TBD
Gross Weight	TBD
Environmental	
Operating Temperature	-4°F~122°F (-20°C~50°C) with airflow
Storage Temperature	-4°F~140°F (-20°C~60°C)
Storage Humidity	90% @40°C; non-condensing
Vibration	1Grms / 5~ 500Hz / operation
Shock	15 G peak acceleration (11 msec. duration)
EMC	CE/FCC Class A Compatible
Power Supply	
DC input	DC 9~36V
LCD	
Display Type	21.5" TFT-LCD, LED
Max Resolution	1920 x 1080
Max. Colors	16.7M colors
Luminance	250 cd/m ²
Viewing Angle	178° (H) ; 178° (V)
Back Light	LED
Back Light MTBF (Hours)	50,000 Hrs
Touchscreen	
Type	P-CAP/ 5-wire resistive
Light Transmission	P-CAP (≥85%), 5-wire Resistive (80% ± 5%)

Optional Accessories

- TBD

Packing List

- TBD

Ordering Information

- TBD

OMNI-3125-ADP PRELIMINARY

12.1" Modular HMI Panel PC with Intel® Alder Lake-P i7/i5/i3/Celeron Processor

Launching in Q1

Features

- 12.1" (1024 x 768) TFT LCD Display
- Intel® Alder Lake-P i7/i5/i3/Celeron CPU (max. 15W TDP)
- P-CAP or Resistive Touch Screen Support
- M.2 PCIe x 4 SSD
- Aluminum Design
- IP65 Compliant Front Bezel
- Fanless Operation
- VESA Mount/ Built-in Panel Mount Bracket
- 9 - 36V DC in a wide range of input



System	
Processor	Intel® Alder Lake-P i7/i5/i3/Celeron CPU
System Memory	DDR5 4800 MHz, Dual Channel SODIMM x 2
LCD/CRT Controller	—
Ethernet	Intel® i210/i211, 10/100/1000Base Intel® i225, 10/100/1000/2500Base
I/O Port	RJ45 LAN x2 USB Type A USB 3.2 Gen2 x3 USB Type C x1 HDMI 2.0b x 1 Audio x1 DB9 COM RS-232/422/485 x2
Storage Disk Drive	2.5" SATA-III x1 (6 Gb/s, for 2.5" SATA drive bay) M.2 2280 NVMe x1 (For PCIe4 NVMe Storage)
Expansion Slot	B-Key 3052 x 1 (BOM Optional: PCIe x 2), default: USB3.2 Gne2+SATA E-Key 2230 x 1 (PCIe, USB2.0)
OS support	Windows 10/Windows 11/Linux
Mechanical	
Construction	Aluminum Front Bezel + Metal Chassis
Mounting	VESA / Panel Mount
Dimension	TBD
Carton Dimension	TBD
Gross Weight	TBD
Environmental	
Operating Temperature	-4°F~122°F (-20°C~50°C) with airflow
Storage Temperature	-4°F~140°F (-20°C~60°C)
Storage Humidity	90% @40°C; non-condensing
Vibration	1Grms / 5~ 500Hz / operation
Shock	15 G peak acceleration (11 msec. duration)
EMC	CE/FCC Class A Compatible
Power Supply	
DC input	DC 9~36V
LCD	
Display Type	12.1" TFT-LCD, LED
Max Resolution	1024(H) x 768(V)
Max. Colors	16.2M colors
Luminance	500 cd/m²
Viewing Angle	160° (H) ; 160° (V)
Back Light	LED
Back Light MTBF (Hours)	50,000 Hrs
Touchscreen	
Type	P-CAP/ 5-wire resistive
Light Transmission	P-CAP (90% ± 3%), 5-wire Resistive (80% ± 3%)

Optional Accessories

- TBD

Packing List

- TBD

Ordering Information

- TBD

Launching in Q1

Features

- 17" (1280 x 1024) TFT LCD Display
- Intel® Alder Lake-P i7/i5/i3/Celeron CPU
- P-CAP or Resistive Touch Screen Support
- M.2 PCIe x 4 SSD
- Aluminum Design
- IP65 Compliant Front Bezel
- Fanless Operation
- VESA Mount/ Built-in Panel Mount Bracket
- 9 - 36V DC in a wide range of input



Specifications

System	
Processor	Intel® Alder Lake-P i7/i5/i3/Celeron CPU
System Memory	DDR5 4800 MHz, Dual Channel SODIMM x 2
LCD/CRT Controller	—
Ethernet	Intel® i210/i211, 10/100/1000Base Intel® i225, 10/100/1000/2500Base
I/O Port	RJ45 LAN x2 USB Type A USB 3.2 Gen2 x3 USB Type C x1 HDMI 2.0b x 1 Audio x1 DB9 COM RS-232/422/485 x2
Storage Disk Drive	2.5" SATA-III x1 (6 Gb/s, for 2.5" SATA drive bay) M.2 2280 NVMe x1 (For PCIe4 NVMe Storage)
Expansion Slot	B-Key 3052 x 1 (BOM Optional: PCIe x 2), default: USB3.2 Gne2+SATA E-Key 2230 x 1 (PCIe, USB2.0)
OS support	Windows 10/Windows 11/Linux
Mechanical	
Construction	Aluminum Front Bezel + Metal Chassis
Mounting	VESA / Panel Mount
Dimension	TBD
Carton Dimension	TBD
Gross Weight	TBD
Environmental	
Operating Temperature	-4°F~122°F (-20°C~50°C) with airflow
Storage Temperature	-4°F~140°F (-20°C~60°C)
Storage Humidity	90% @40°C; non-condensing
Vibration	1Grms / 5~ 500Hz / operation
Shock	15 G peak acceleration (11 msec. duration)
EMC	CE/FCC Class A Compatible
Power Supply	
DC input	DC 9~36V
LCD	
Display Type	17" TFT-LCD, LED
Max Resolution	1280(H) x 1024(V)
Max. Colors	16.7M colors (RGB 6-bits + Hi-FRC data)
Luminance	350 cd/m ²
Viewing Angle	170° (H), 160° (V)
Back Light	LED
Back Light MTBF (Hours)	50,000
Touchscreen	
Type	P-CAP/ 5-wire resistive
Light Transmission	P-CAP (90% ± 3%), 5-wire Resistive (80% ± 3%)

Optional Accessories

- TBD

Packing List

- TBD

Ordering Information

- TBD

OMNI-3195-ADP PRELIMINARY

19" Modular HMI Panel PC with Intel® Alder Lake-P i7/i5/i3/Celeron Processor

Launching in Q1

Features

- 19" (1280 x 1024) TFT LCD Display
- Intel® Alder Lake-P i7/i5/i3/Celeron CPU
- P-CAP or Resistive Touch Screen Support
- M.2 PCIe x 4 SSD
- Aluminum Design
- IP65 Compliant Front Bezel
- Fanless Operation
- VESA Mount/ Built-in Panel Mount Bracket
- 9 - 36V DC in a wide range of input



Specifications

System	
Processor	Intel® Alder Lake-P i7/i5/i3/Celeron CPU
System Memory	DDR5 4800 MHz, Dual Channel SODIMM x 2
LCD/CRT Controller	—
Ethernet	Intel® i210/i211, 10/100/1000Base Intel® i225, 10/100/1000/2500Base
I/O Port	RJ45 LAN x2 USB Type A USB 3.2 Gen2 x3 USB Type C x1 HDMI 2.0b x 1 Audio x1 DB9 COM RS-232/422/485 x2
Storage Disk Drive	2.5" SATA-III x1 (6 Gb/s, for 2.5" SATA drive bay) M.2 2280 NVMe x1 (For PCIe4 NVMe Storage)
Expansion Slot	B-Key 3052 x 1 (BOM Optional: PCIe x 2), default: USB3.2 Gne2+SATA E-Key 2230 x 1 (PCIe, USB2.0)
OS support	Windows 10/Windows 11/Linux
Mechanical	
Construction	Aluminum Front Bezel + Metal Chassis
Mounting	VESA / Panel Mount
Dimension	TBD
Carton Dimension	TBD
Gross Weight	TBD
Environmental	
Operating Temperature	-4°F~122°F (-20°C~50°C) with airflow
Storage Temperature	-4°F~140°F (-20°C~60°C)
Storage Humidity	90% @40°C; non-condensing
Vibration	1Grms / 5~ 500Hz / operation
Shock	15 G peak acceleration (11 msec. duration)
EMC	CE/FCC Class A Compatible
Power Supply	
DC input	DC 9~36V
LCD	
Display Type	19" TFT-LCD, LED
Max Resolution	1280(H) x 1024(V)
Max. Colors	16.7M colors
Luminance	350 cd/m ²
Viewing Angle	170° (H), 160° (V)
Back Light	LED
Back Light MTBF (Hours)	50,000
Touchscreen	
Type	P-CAP/ 5-wire resistive
Light Transmission	P-CAP (90% ± 3%), 5-wire Resistive (80% ± 3%)

Optional Accessories

- TBD

Packing List

- TBD

Ordering Information

- TBD

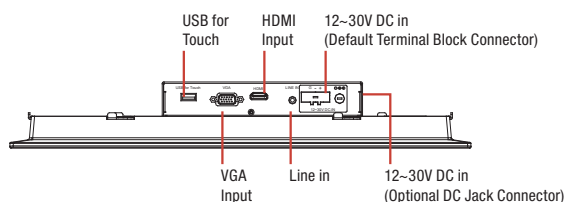
Focus • Agility • Competitiveness

07

07

OMNI Series: Modular Display Solutions





Features

- 15.6" WXGA (1366 x 768) TFT LCD Display
- Provide Projective Capacitive Touch or Resistive Touch Screen
- IP65 Aluminum Front Bezel
- DC 12~30V with Over Voltage/Current, Under Voltage Protection
- Optional Built-in Speakers



LED Backlight

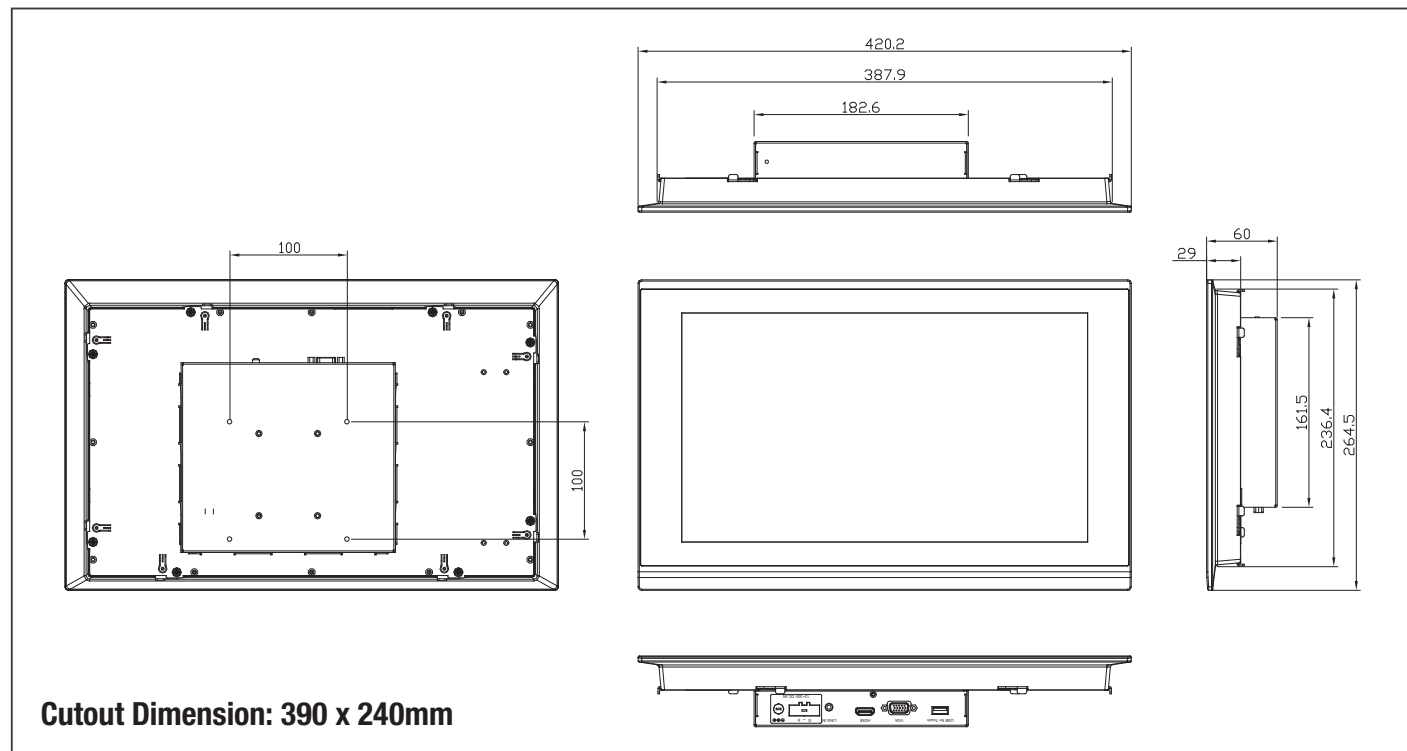


Specifications

System	
Input Signal	VGA/HDMI
On Screen Display Control	5 keys OSD keypad (Up, Down, Menu, Auto, Power)
I/O Port	DB-15 VGA x 1 HDMI x 1 USB x 1 (For Enable T/S Function) Line in x 1 (For optional internal Speaker) Power Input x 1 (Terminal Block 3pin)
Os Support	Windows® 7 32/64-bit, Windows® 8 32/64-bit, Windows® 10 64-bit, Linux Ubuntu 16.04
Mechanical	
Construction	IP65 aluminum front bezel & SGCC chassis
Mounting	Panel Mount / VESA 100x100 / Stand
Dimension	16.5" x 10.4" x 2.4" (420.2mm x 264.5mm x 60.2mm)
Carton Dimension	20.9" x 17.5" x 7.9" (530mm x 445mm x 200mm)
Gross Weight	14.1 lbs (6.4 kg)
Net Weight	11.2 lbs (5.1 kg)
Environmental	
Operating Temperature	14°F ~ 131°F (-10°C ~ 55°C) With 0.5m/s Airflow
Storage Temperature	-4°F ~ 140°F (-20°C ~ 60°C)
Storage Humidity	10%~90% @104°F (40°C); non-condensing
Vibration	1 Grms / 5~500Hz/random Operation
Shock	—
EMC	CE/FCC, Class A
Power Supply	
Dc Input	DC 12~30V Power Input with 3 Pin Terminal Block
LCD	
Display Type	15.6" TFT-LCD
Max. Resolution	1366 x 768
Max. Colors	16.7M
Luminance	400 cd/m²
Viewing Angle	170° (H), 160° (V)
Back Light	LED
Back Light MTBF (Hours)	50,000
Touchscreen	
Type	Projective Capacitive Multi Touch or 5 Wire Resistive Touch Screen (By Model)
Light Transmission	P-CAP (90% ± 3%), 5-wire Resistive (80% ± 3%)
Life Time	—

Dimension

Unit: mm



Ordering Information

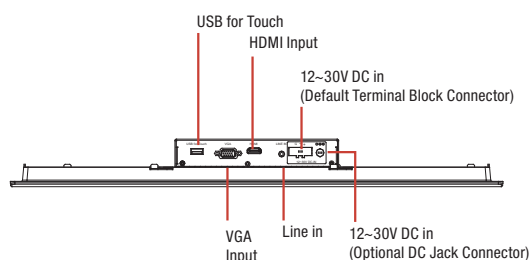
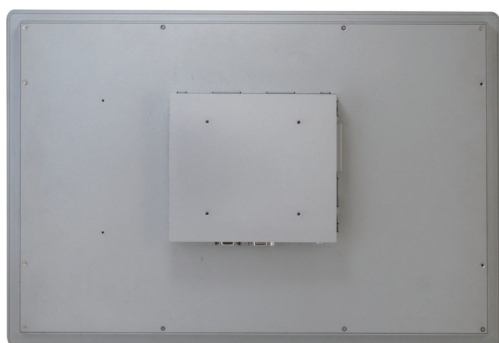
Part Number	Display Type	Max. Resolution	Luminance	View Angle	Backlight MTBF (Hours)	Display	Mounting	Power	Temp.	Touch	Others
OMNI-215MHTT-A1-1010	15.6" TFT-LCD	1366 x 768	400 cd/m ²	160(H), 140(V)	50,000	VGA x 1 HDMI x 1	Panel mount VESA 100	DC 12V~30V	14°F ~ 131°F (-10°C ~ 55°C) (with 0.5 m/s airflow)	Flat 5 Wire Resistive	—
OMNI-215MHTT-A2-1011	15.6" TFT-LCD	1366 x 768	400 cd/m ²	160(H), 140(V)	50,000	VGA x 1 HDMI x 1	Panel mount VESA 100	DC 12V~30V	14°F ~ 131°F (-10°C ~ 55°C) (with 0.5 m/s airflow)	Projected Capacitive	—

Packing List

- VGA Cable x 1
- USB Cable for Touch x 1
- Phoenix Power Connector
- OMNI-215M

Optional Accessories

- **125530040F**
12V 40W FSP040-DHAN3
- **1702031802**
Power Cord (US Type)
- **1702031803**
Power Cord (European Type)
- **170203180E**
Power Cord (Japanese Type)
- **AP-OT9789LA1000**
LCD Monitor Stand 230mm, LA-100



Features

- 21.5" FHD (1920 x 1080) TFT LCD Display
- Provide Projective Capacitive Touch or Resistive Touch Screen
- IP65 Aluminum Front Bezel
- DC 12~30V with Over Voltage/Current, Under Voltage Protection
- Optional Built-in Speakers

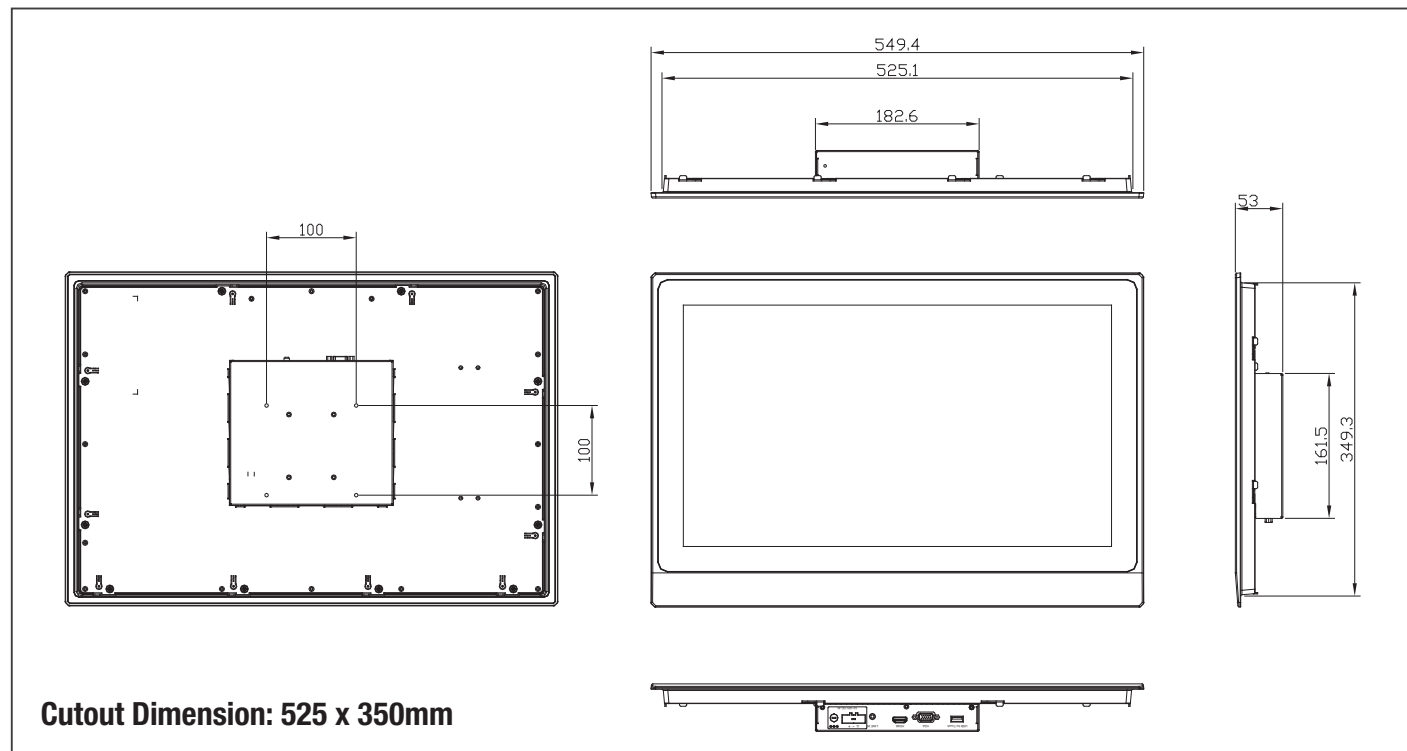


Specifications

System	
Input Signal	VGA/HDMI
On Screen Display Control	5 keys OSD keypad (Up, Down, Menu, Auto, Power)
I/O Port	DB-15 VGA x 1 HDMI x 1 USB x 1 (For Enable T/S Function) Line in x 1 (For optional internal Speaker) Power Input x 1(Terminal Block 3pin)
Os Support	Windows® 7 32/64-bit, Windows® 8 32/64-bit, Windows® 10 64-bit, Linux Ubuntu 16.04
Mechanical	
Construction	IP65 aluminum front bezel & SGCC chassis
Mounting	Panel Mount / VESA 100 x 100 / Stand
Dimension	21.6" x 14.6" x 2.1" (549mm x 372mm x 53mm)
Carton Dimension	26.4" x 20.7" x 7.9" (670mm x 525mm x 200mm)
Gross Weight	18.5 lbs (8.4 kg)
Net Weight	15.4 lbs (7.0 kg)
Environmental	
Operating Temperature	14°F ~ 131°F (-10°C ~ 55°C) With 0.5m/s Airflow
Storage Temperature	-4°F ~ 140°F (-20°C ~ 60°C)
Storage Humidity	10%~90% @104°F (40°C); non-condensing
Vibration	1 Grms / 5~500Hz/random Operation
Shock	—
EMC	CE/FCC, Class A
Power Supply	
Dc Input	DC 12~30V Power Input with 3 Pin Terminal Block
LCD	
Display Type	21.5" TFT-LCD
Max. Resolution	1920 x 1080
Max. Colors	16.7M
Luminance	250 cd/m²
Viewing Angle	178° (H), 178° (V)
Back Light	LED
Back Light MTBF (Hours)	50,000
Touchscreen	
Type	Projective Capacitive Multi Touch or 5 Wire Resistive Touch Screen (By Model)
Light Transmission	P-CAP (90% ± 3%), 5-wire Resistive (80% ± 3%)
Life Time	—

Dimension

Unit: mm



Ordering Information

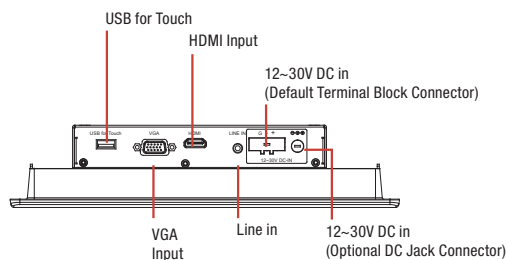
Part Number	Display Type	Max. Resolution	Luminance	View Angle	Backlight MTBF (Hours)	Display	Mounting	Power	Temp.	Touch	Others
OMNI-221MHTT-A1-1011	21.5" TFT-LCD	1920 x 1080	250 cd/m ²	178(H), 178(V)	50,000	VGA x 1 HDMI x 1	Panel mount VESA 100	DC 12V~30V	14°F ~ 131°F (-10°C ~ 55°C) (with 0.5 m/s airflow)	Flat 5 Wire Resistive	—
OMNI-221MHTT-A2-1011	21.5" TFT-LCD	1920 x 1080	250 cd/m ²	178(H), 178(V)	50,000	VGA x 1 HDMI x 1	Panel mount VESA 100	DC 12V~30V	14°F ~ 131°F (-10°C ~ 55°C) (with 0.5 m/s airflow)	Projected Capacitive	—

Packing List

- VGA Cable x 1
- USB Cable for Touch x 1
- Phoenix Power Connector
- OMNI-221M

Optional Accessories

- **125530040F**
12V 40W FSP040-DHAN3
- **1702031802**
Power Cord (US Type)
- **1702031803**
Power Cord (European Type)
- **170203180E**
Power Cord (Japanese Type)
- **AP-OT9789LA1000**
LCD Monitor Stand 230mm, LA-100



Features

- 10.4" SVGA (800 x 600) TFT LCD Display
- Provide Projective Capacitive Touch or Resistive Touch Screen
- IP65 Aluminum Front Bezel
- DC 12~30V with Over Voltage/Current, Under Voltage Protection
- Optional Built-in Speakers

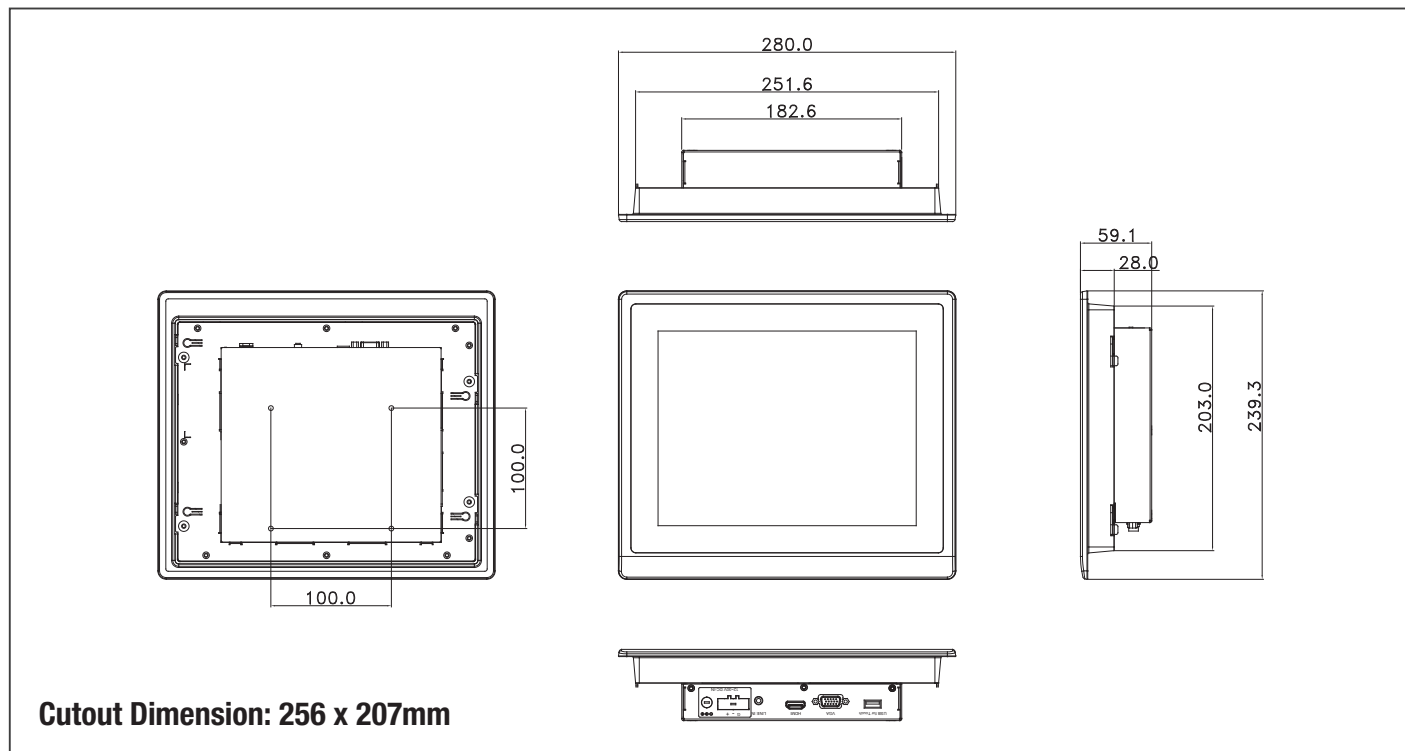


Specifications

System	
Input Signal	VGA / HDMI
On Screen Display Control	5 keys OSD keypad (Up, Down, Menu, Auto, Power)
I/O Port	DB-15 VGA x 1 HDMI x 1 USB x 1 (For Enable T/S Function) Line in x 1 (For optional internal Speaker) Power Input x 1(Terminal Block 3pin)
Os Support	Windows® 7 32/64-bit, Windows® 8 32/64-bit, Windows® 10 64-bit, Linux Ubuntu 16.04
Mechanical	
Construction	IP65 aluminum front bezel & SGCC chassis
Mounting	Panel Mount / VESA 100 x 100 / Stand
Dimension	11.0" x 9.4" x 2.33" (280mm x 239.3mm x 59.1mm)
Carton Dimension	16.3" x 15.4" x 7.04" (415mm x 391mm x 179mm)
Gross Weight	7.9 lbs (3.6 kg)
Net Weight	1.1 lbs (2.4 kg)
Environmental	
Operating Temperature	14°F ~ 131°F (-10°C ~ 55°C) With 0.5m/s Airflow
Storage Temperature	-4°F ~ 140°F (-20°C ~ 60°C)
Storage Humidity	10%~90% @104°F (40°C); non-condensing
Vibration	1 Grms / 5~500Hz/random Operation
Shock	—
EMC	CE/FCC, Class A
Power Supply	
Dc Input	DC 12~30V Power Input with 3 Pin Terminal Block
LCD	
Display Type	10.4" TFT-LCD
Max. Resolution	800 x 600
Max. Colors	16.2M
Luminance	230 cd/m ²
Viewing Angle	160° (H), 130° (V)
Back Light	LED
Back Light MTBF (Hours)	30,000
Touchscreen	
Type	Projective Capacitive Multi Touch or 5 Wire Resistive Touch Screen (By Model)
Light Transmission	P-CAP (90% ± 3%), 5-wire Resistive (80% ± 3%)
Life Time	—

Dimension

Unit: mm



Ordering Information

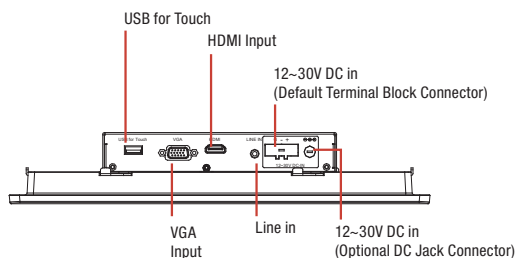
Part Number	Display Type	Max. Resolution	Luminance	View Angle	Backlight MTBF (Hours)	Display	Mounting	Power	Temp.	Touch	Others
OMNI-310MHTT-A1-1010	10.4" TFT-LCD	800 x 600	230 cd/m ²	120(H), 100(V)	50,000	VGA x 1 HDMI x 1	Panel mount VESA 100	DC 12V~30V	14°F ~ 131°F (-10°C ~ 55°C) (with 0.5 m/s airflow)	Flat 5 Wire Resistive	—
OMNI-310MHTT-A2-1010	10.4" TFT-LCD	800 x 600	230 cd/m ²	120(H), 100(V)	50,000	VGA x 1 HDMI x 1	Panel mount VESA 100	DC 12V~30V	14°F ~ 131°F (-10°C ~ 55°C) (with 0.5 m/s airflow)	Projected Capacitive	—

Packing List

- VGA Cable x 1
- USB Cable for Touch x 1
- Phoenix Power Connector
- OMNI-310M

Optional Accessories

- **125530040F**
12V 40W FSP040-DHAN3
- **1702031802**
Power Cord (US Type)
- **1702031803**
Power Cord (European Type)
- **170203180E**
Power Cord (Japanese Type)
- **AP-OT9789LA1000**
LCD Monitor Stand 230mm, LA-100



Features

- 12.1" XGA (1024 x 768) TFT LCD Display
- Provide Projective Capacitive Touch or Resistive Touch Screen
- IP65 Aluminum Front Bezel
- DC 12~30V with Over Voltage/Current, Under Voltage Protection
- Optional Built-in Speakers

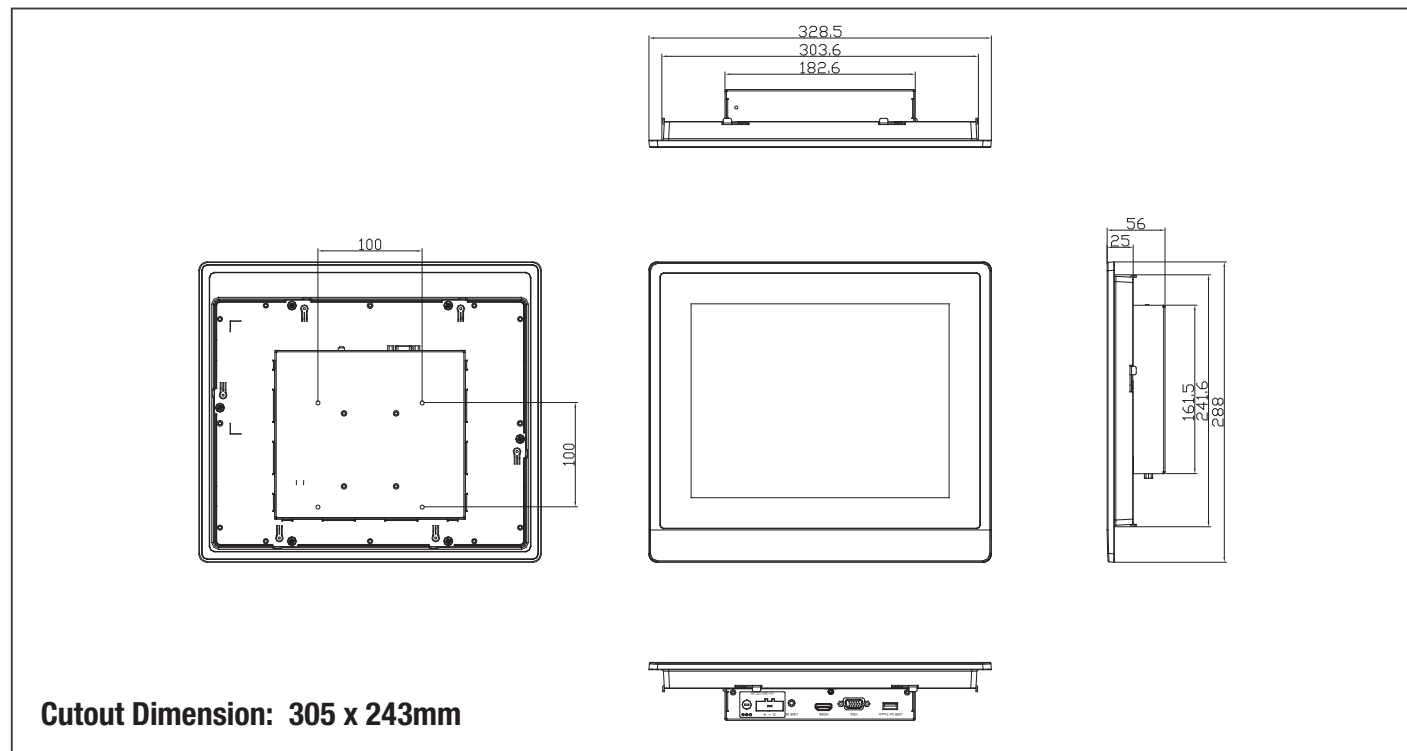


Specifications

System	
Input Signal	VGA / HDMI
On Screen Display Control	5 keys OSD keypad (Up, Down, Menu, Auto, Power)
I/O Port	DB-15 VGA x 1 HDMI x 1 USB x 1 (For Enable T/S Function) Line in x 1 (For optional internal Speaker) Power Input x 1(Terminal Block 3pin)
Os Support	Windows® 7 32/64-bit, Windows® 8 32/64-bit, Windows® 10 64-bit, Linux Ubuntu 16.04
Mechanical	
Construction	IP65 aluminum front bezel & SGCC chassis
Mounting	Panel Mount / VESA 100 x 100 / Stand
Dimension	12.9" x 11.3" x 2.2" (328.5mm x 288.1mm x 55.9mm)
Carton Dimension	20.9" x 17.5" x 7.9" (530mm x 445mm x 200mm)
Gross Weight	10.4 lbs (4.7 kg)
Net Weight	7.7 lbs (3.5 kg)
Environmental	
Operating Temperature	14°F ~ 131°F (-10°C ~ 55°C) With 0.5m/s Airflow
Storage Temperature	-4°F ~ 140°F (-20°C ~ 60°C)
Storage Humidity	10%~90% @104°F (40°C); non-condensing
Vibration	1 Grms / 5~500Hz/random Operation
Shock	—
EMC	CE/FCC, Class A
Power Supply	
Dc Input	DC 12~30V Power Input with 3 Pin Terminal Block
LCD	
Display Type	12.1" TFT-LCD
Max. Resolution	1024 x 768
Max. Colors	16.2M
Luminance	500 cd/m ²
Viewing Angle	160° (H), 160° (V)
Back Light	LED
Back Light MTBF (Hours)	50,000
Touchscreen	
Type	Projective Capacitive Multi Touch or 5 Wire Resistive Touch Screen (By Model)
Light Transmission	P-CAP (90% ± 3%), 5-wire Resistive (80% ± 3%)
Life Time	—

Dimension

Unit: mm



Ordering Information

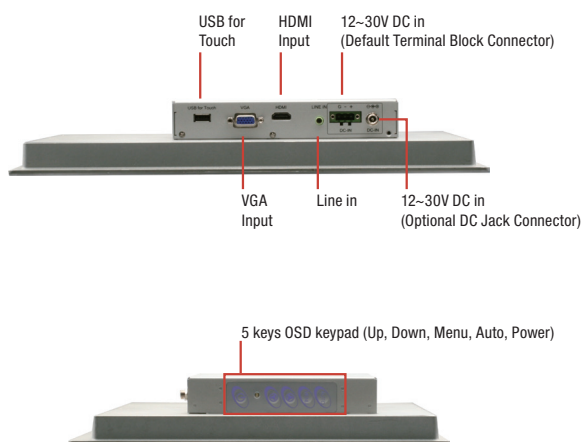
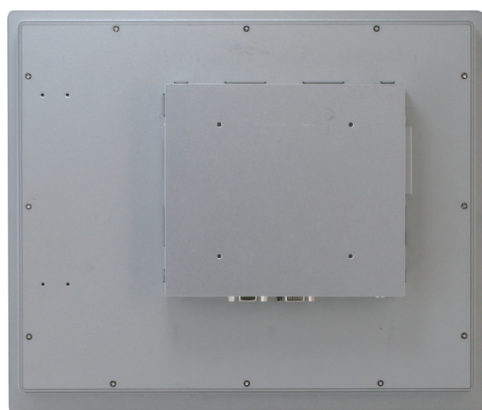
Part Number	Display Type	Max. Resolution	Luminance	View Angle	Backlight MTBF (Hours)	Display	Mounting	Power	Temp.	Touch	Others
OMNI-312MHTT-A1-1010	12.1" TFT-LCD	1024 x 768	500 cd/m ²	160(H), 160(V)	50,000	VGA x 1 HDMI x 1	Panel mount VESA 100	DC 12V~30V	14°F ~ 131°F (-10°C ~ 55°C) (with 0.5 m/s airflow)	Flat 5 Wire Resistive	—
OMNI-312MHTT-A2-1010	12.1" TFT-LCD	1024 x 768	500 cd/m ²	160(H), 160(V)	50,000	VGA x 1 HDMI x 1	Panel mount VESA 100	DC 12V~30V	14°F ~ 131°F (-10°C ~ 55°C) (with 0.5 m/s airflow)	Projected Capacitive	—

Packing List

- VGA Cable x 1
- USB Cable for Touch x 1
- Phoenix Power Connector
- OMNI-312M

Optional Accessories

- **125530040F**
12V 40W FSP040-DHAN3
- **1702031802**
Power Cord (US Type)
- **1702031803**
Power Cord (European Type)
- **170203180E**
Power Cord (Japanese Type)
- **AP-0T9789LA1000**
LCD Monitor Stand 230mm, LA-100



Features

- 15" XGA (1024 x 768) TFT LCD Display
- Provide Projective Capacitive Touch or Resistive Touch Screen
- IP65 Aluminum Front Bezel
- DC 12~30V with Over Voltage/Current, Under Voltage Protection
- Optional Built-in Speakers

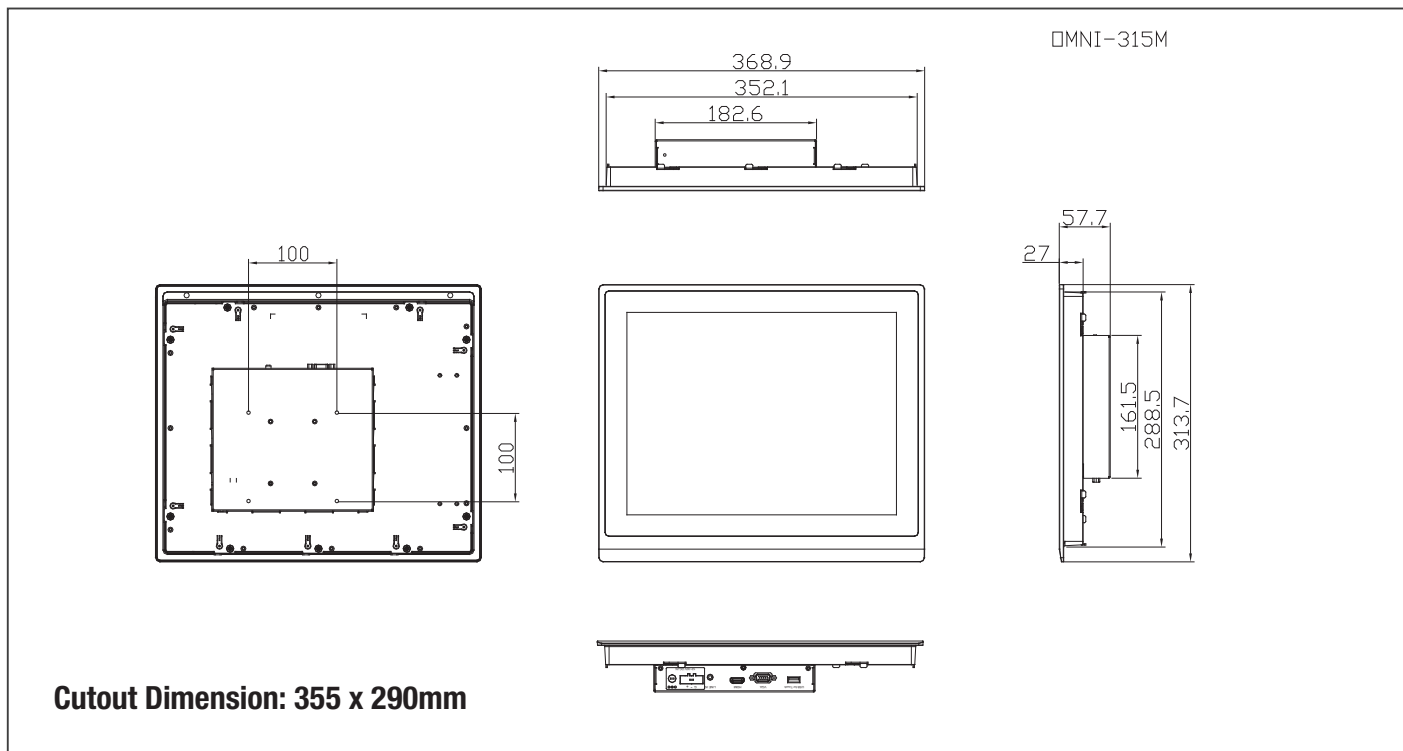


Specifications

System	
Input Signal	VGA / HDMI
On Screen Display Control	5 keys OSD keypad (Up, Down, Menu, Auto, Power)
I/O Port	DB-15 VGA x 1 HDMI x 1 USB x 1 (For Enable T/S Function) Line in x 1 (For optional internal Speaker) Power Input x 1 (Terminal Block 3pin)
Os Support	Windows® 7 32/64-bit, Windows® 8 32/64-bit, Windows® 10 64-bit, Linux Ubuntu 16.04
Mechanical	
Construction	IP65 aluminum front bezel & SGCC chassis
Mounting	Panel Mount / VESA 100 x 100 / Stand
Dimension	14.5" x 12.4" x 2.3" (369mm x 314mm x 58mm)
Carton Dimension	20.1" x 18.1" x 9.8" (510mm x 460mm x 250mm)
Gross Weight	14 lbs (6.35 kg)
Net Weight	11.2 lbs (5.1 kg)
Environmental	
Operating Temperature	14°F ~ 131°F (-10°C ~ 55°C) With 0.5m/s Airflow
Storage Temperature	-4°F ~ 140°F (-20°C ~ 60°C)
Storage Humidity	10%~90% @104°F (40°C); non-condensing
Vibration	1 Grms / 5~500Hz/random Operation
Shock	—
EMC	CE/FCC, Class A
Power Supply	
Dc Input	DC 12~30V Power Input with 3 Pin Terminal Block
LCD	
Display Type	15" TFT-LCD
Max. Resolution	1024 x 768
Max. Colors	16.2M (8bit/color)
Luminance	300 cd/m²
Viewing Angle	176° (H), 176° (V)
Back Light	LED
Back Light MTBF (Hours)	70,000
Touchscreen	
Type	Projective Capacitive Multi Touch or 5 Wire Resistive Touch Screen (By Model)
Light Transmission	P-CAP (90% ± 3%), 5-wire Resistive (80% ± 3%)
Life Time	—

Dimension

Unit: mm



Ordering Information

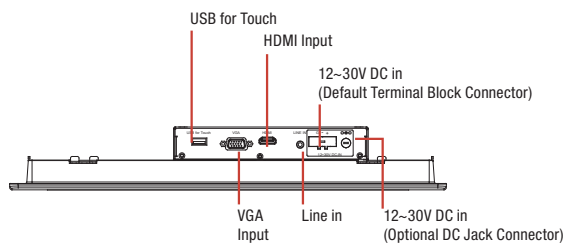
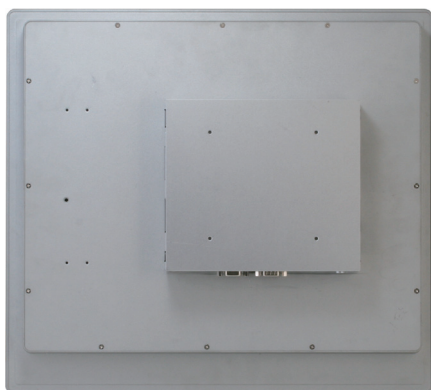
Part Number	Display Type	Max. Resolution	Luminance	View Angle	Backlight MTBF (Hours)	Display	Mounting	Power	Temp.	Touch	Others
OMNI-315MHTT-A1-1011	15" TFT-LCD	1024 x 768	300 cd/m ²	176° (H), 176° (V)	70,000	VGA x 1 HDMI x 1	Panel mount VESA 100	DC 12V~30V	14°F ~ 131°F (-10°C ~ 55°C) (with 0.5 m/s airflow)	Flat 5 Wire Resistive	—
OMNI-315MHTT-A2-1011	15" TFT-LCD	1024 x 768	300 cd/m ²	176° (H), 176° (V)	70,000	VGA x 1 HDMI x 1	Panel mount VESA 100	DC 12V~30V	14°F ~ 131°F (-10°C ~ 55°C) (with 0.5 m/s airflow)	Projected Capacitive	—

Packing List

- VGA Cable x 1
- USB Cable for Touch x 1
- Phoenix Power Connector
- OMNI-315M

Optional Accessories

- **125530040F**
12V 40W FSP040-DHAN3
- **1702031802**
Power Cord (US Type)
- **1702031803**
Power Cord (European Type)
- **170203180E**
Power Cord (Japanese Type)
- **AP-OT9789LA1000**
LCD Monitor Stand 230mm, LA-100



Features

- 17" SXGA (1280 x 1024) TFT LCD Display
- Provide Projective Capacitive Touch or Resistive Touch Screen
- IP65 Aluminum Front Bezel
- DC 12~30V with Over Voltage/Current, Under Voltage Protection
- Optional Built-in Speakers

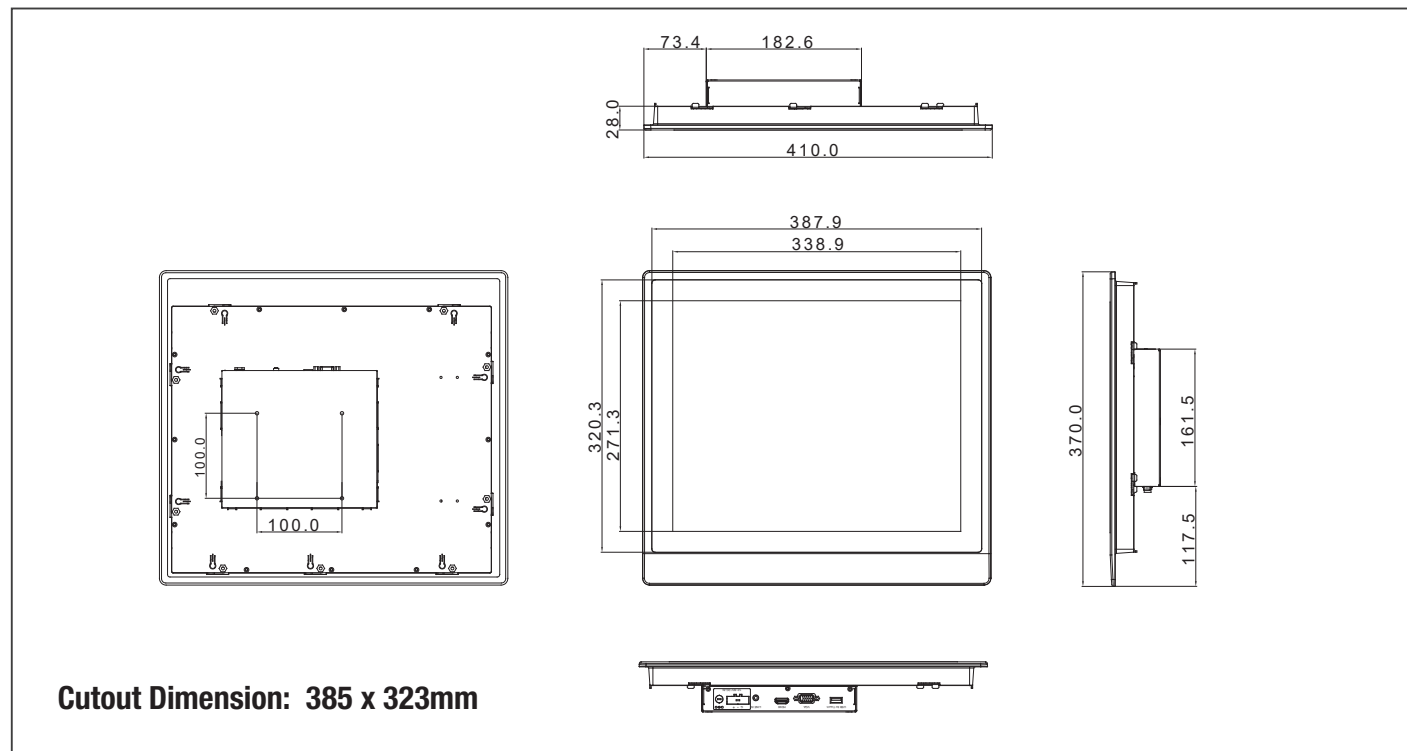


Specifications

System	
Input Signal	VGA / HDMI
On Screen Display Control	5 keys OSD keypad (Up, Down, Menu, Auto, Power)
I/O Port	DB-15 VGA x 1 HDMI x 1 USB x 1 (For Enable T/S Function) Line in x 1 (For optional internal Speaker) Power Input x 1(Terminal Block 3pin)
Os Support	Windows® 7 32/64-bit, Windows® 8 32/64-bit, Windows® 10 64-bit, Linux Ubuntu 16.04
Mechanical	
Construction	IP65 aluminum front bezel & SGCC chassis
Mounting	Panel Mount / VESA 100 x 100 / Stand
Dimension	16.1" x 14.6" x 2.3" (410mm x 370mm x 59.1mm)
Carton Dimension	20.6" x 19.3" x 10.3" (522mm x 490mm x 262mm)
Gross Weight	14.8 lbs (6.7 kg)
Net Weight	11.7 lbs (5.3 kg)
Environmental	
Operating Temperature	14°F ~ 131°F (-10°C ~ 55°C) With 0.5m/s Airflow
Storage Temperature	-4°F ~ 140°F (-20°C ~ 60°C)
Storage Humidity	10%~90% @104°F (40°C); non-condensing
Vibration	1 Grms / 5~500Hz/random Operation
Shock	—
EMC	CE/FCC, Class A
Power Supply	
Dc Input	DC 12~30V Power Input with 3 Pin Terminal Block
LCD	
Display Type	17" TFT-LCD
Max. Resolution	1280 x 1024
Max. Colors	16.7M
Luminance	350 cd/m ²
Viewing Angle	160° (H), 140° (V)
Back Light	LED
Back Light MTBF (Hours)	50,000
Touchscreen	
Type	Projective Capacitive Multi Touch or 5 Wire Resistive Touch Screen (By Model)
Light Transmission	P-CAP (90% ± 3%), 5-wire Resistive (80% ± 3%)
Life Time	—

Dimension

Unit: mm



Ordering Information

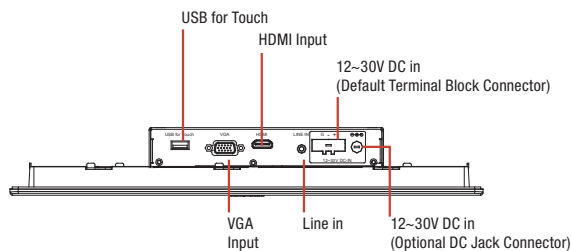
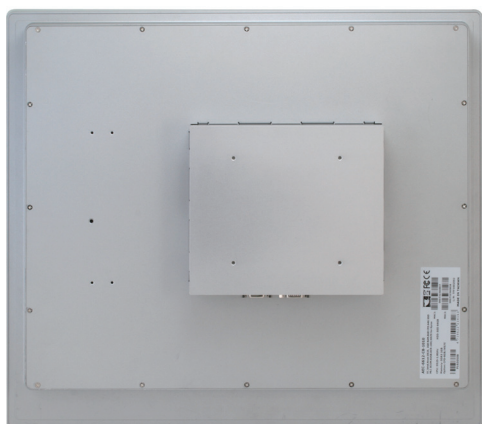
Part Number	Display Type	Max. Resolution	Luminance	View Angle	Backlight MTBF (Hours)	Display	Mounting	Power	Temp.	Touch	Others
OMNI-317MHTT-A1-1011	17" TFT-LCD	1280 x 1024	350 cd/m ²	160°(H), 140°(V)	50,000	VGA x 1 HDMI x 1	Panel mount VESA 100	DC 12V~30V	14°F ~ 131°F (-10°C ~ 55°C) (with 0.5 m/s airflow)	Flat 5 Wire Resistive	—
OMNI-317MHTT-A2-1010	17" TFT-LCD	1280 x 1024	350 cd/m ²	160°(H), 140°(V)	50,000	VGA x 1 HDMI x 1	Panel mount VESA 100	DC 12V~30V	14°F ~ 131°F (-10°C ~ 55°C) (with 0.5 m/s airflow)	Projected Capacitive	—

Packing List

- VGA Cable x 1
- USB Cable for Touch x 1
- Phoenix Power Connector
- OMNI-317M

Optional Accessories

- **125530040F**
12V 40W FSP040-DHAN3
- **1702031802**
Power Cord (US Type)
- **1702031803**
Power Cord (European Type)
- **170203180E**
Power Cord (Japanese Type)
- **AP-OT9789LA1000**
LCD Monitor Stand 230mm, LA-100



Features

- 19" SXGA (1280 x 1024) TFT LCD Display
- Provide Projective Capacitive Touch or Resistive Touch Screen
- IP65 Aluminum Front Bezel
- DC 12~30V with Over Voltage/Current, Under Voltage Protection
- Optional Built-in Speakers

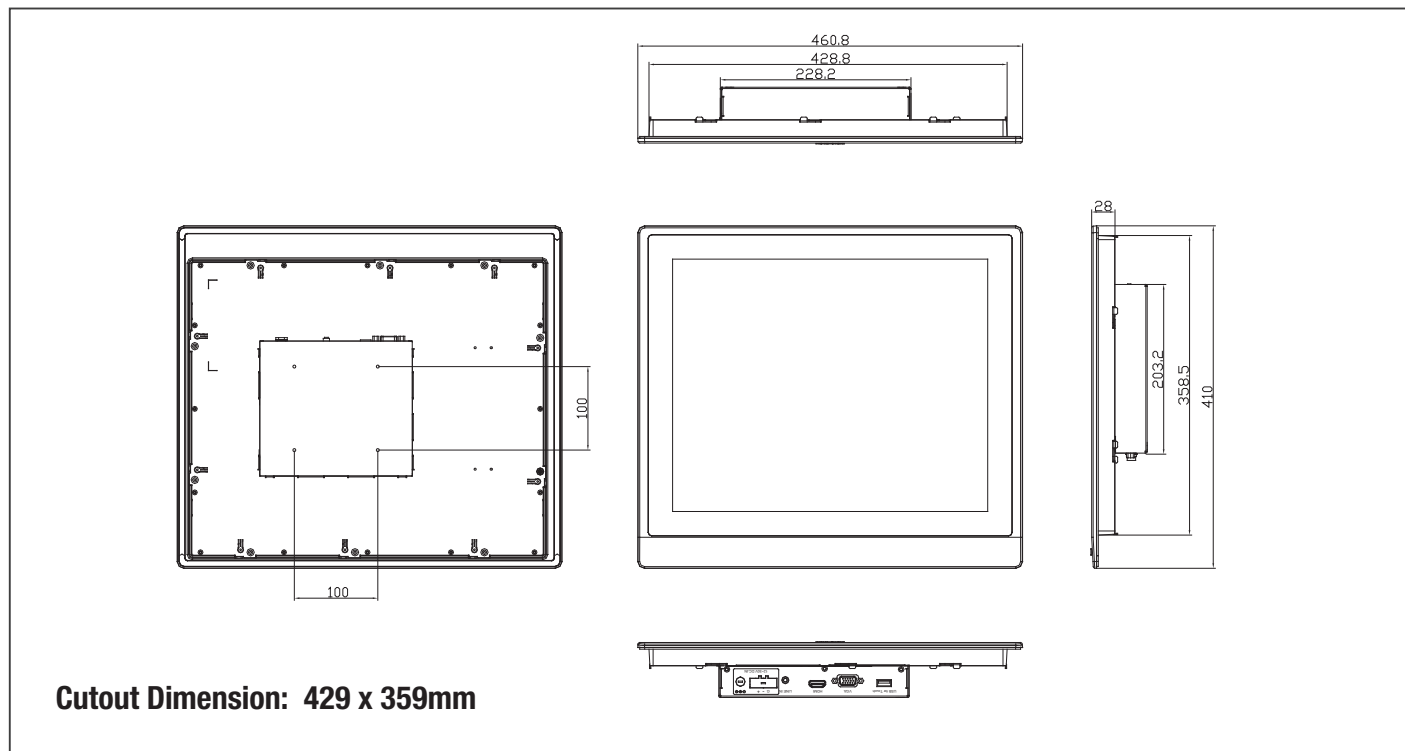


Specifications

System	
Input Signal	VGA / HDMI
On Screen Display Control	5 keys OSD keypad (Up, Down, Menu, Auto, Power)
I/O Port	DB-15 VGA x 1 HDMI x 1 USB x 1 (For Enable T/S Function) Line in x 1 (For optional internal Speaker) Power Input x 1(Terminal Block 3pin)
Os Support	Windows® 7 32/64-bit, Windows® 8 32/64-bit, Windows® 10 64-bit, Linux Ubuntu 16.04
Mechanical	
Construction	IP65 aluminum front bezel & SGCC chassis
Mounting	Panel Mount / VESA 100 x 100 / Stand
Dimension	18.1" x 16.1" x 2.3" (460.8mm x 410mm x 59.1mm)
Carton Dimension	26.0" x 19.5" x 8.1 (661mm x 496mm x 206mm)
Gross Weight	18.1 lbs (8.2 kg)
Net Weight	15.2 lbs (6.9 kg)
Environmental	
Operating Temperature	14°F ~ 131°F (-10°C ~ 55°C) With 0.5m/s Airflow
Storage Temperature	-4°F ~ 140°F (-20°C ~ 60°C)
Storage Humidity	10%~90% @104°F (40°C); non-condensing
Vibration	1 Grms / 5~500Hz/random Operation
Shock	—
EMC	CE/FCC, Class A
Power Supply	
Dc Input	DC 12~30V Power Input with 3 Pin Terminal Block
LCD	
Display Type	19" TFT-LCD
Max. Resolution	1280 x 1024
Max. Colors	16.7M
Luminance	350 cd/m ²
Viewing Angle	170° (H), 160° (V)
Back Light	LED
Back Light MTBF (Hours)	50,000
Touchscreen	
Type	Projective Capacitive Multi Touch or 5 Wire Resistive Touch Screen (By Model)
Light Transmission	P-CAP (90% ± 3%), 5-wire Resistive (80% ± 3%)
Life Time	—

Dimension

Unit: mm



Ordering Information

Part Number	Display Type	Max. Resolution	Luminance	View Angle	Backlight MTBF (Hours)	Display	Mounting	Power	Temp.	Touch	Others
OMNI-319MHTT-A1-1011	19" TFT-LCD	1280 x 1024	350 cd/m ²	170(H), 160(V)	50,000	VGA x 1 HDMI x 1	Panel mount VESA 100	DC 12V~30V	14°F ~ 131°F (-10°C ~ 55°C) (with 0.5 m/s airflow)	Flat 5 Wire Resistive	—
OMNI-319MHTT-A2-1010	19" TFT-LCD	1280 x 1024	350 cd/m ²	170(H), 160(V)	50,000	VGA x 1 HDMI x 1	Panel mount VESA 100	DC 12V~30V	14°F ~ 131°F (-10°C ~ 55°C) (with 0.5 m/s airflow)	Projected Capacitive	—

Packing List

- VGA Cable x 1
- USB Cable for Touch x 1
- Phoenix Power Connector
- OMNI-319M

Optional Accessories

- **125530040F**
12V 40W FSP040-DHAN3
- **1702031802**
Power Cord (US Type)
- **1702031803**
Power Cord (European Type)
- **170203180E**
Power Cord (Japanese Type)
- **AP-OT9789LA1000**
LCD Monitor Stand 230mm, LA-100

Memo



Handwriting practice area with horizontal dotted lines.

Handwriting practice area with horizontal dotted lines.

Memo



Lined area for writing the memo content.

Handwriting practice area with horizontal dotted lines.



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