

AST2500 ASPEED BGA

AST2500 is ASPEED's 6th generation Server Management Processor. With the 800MHz ARM11 processor and the mainstream double data rate memory migrating from DDR3 to DDR4, AST2500 provides customer the best performance server management solution. In addition to the advanced BMC features, the on chip PCIe 2D VGA provides server systems with local display capability without adding extra cost for VGA add-on card. The embedded ARM11 and DDR4 1600Mbps meet the increasing performance requirements of the server system.



Overview

Product Name	AST2500 Advanced PCIe Graphics & Remote Management Processor
Features	<ul style="list-style-type: none">• Base Board Management Controller• 2D Video Graphic Adapter with PCIe bus interface• Native PCIe support• iKVM• DDR3 800Mbps/DDR4 1600Mbps 16-bit bus support• ARM11 @ 800MHz
Related Products	AST2510 / AST2520

Brief Spec

Embedded CPU	800MHz ARM11
SDRAM Memory	<ul style="list-style-type: none"> • 800Mbps DDR3/1600Mbps DDR4 SDRAM • 16-bit data bus width • Up to 1G Byte • ECC option
Flash Memory	SPI flash memory
Video-Over-IP	<ul style="list-style-type: none"> • Video Redirection up to 1920×1200 • YUV444/YUV420 Video Compression • 24 bits video compression quality
USB-Over-IP	<ul style="list-style-type: none"> • USB 2.0 virtual hub controller with 5 devices supported • USB 1.1 HID device controller
BMC	Yes
VGA	<ul style="list-style-type: none"> • PCIe VGA/2D Controller • 1920×1200@60Hz 32bpp
VGA Drivers	<ul style="list-style-type: none"> • RHEL • SLES • Solaris • Ubuntu • FreeBSD • Fedora • Windows Server 2008 R2 (WHQL logo'ed) • Windows Server 2012 R2 (WHQL logo'ed)
LAN	Dual 10/100/1000M bps MAC
Technology	456-pin 19mm×19mm TFBGA package
Pin Compatibility	AST2510, AST2520, AST2530

Application Scenario

