

Altus™ 1700, 2700, 1702



New Line of AMD Opteron “Shanghai” Generation Servers from Penguin

Latest Penguin Altus lineup includes both fully featured enterprise servers (Altus 1700, 2700) as well as a high density compute node for HPC cluster applications (Altus 1702)

Features

- » Latest AMD Quad Core Processors
- » High capacity DDR2 memory
- » PCI Express and PCI-X expansion slots
- » Integrated IPMI 2.0 management
- » SATA/SAS storage options, optional hardware RAID

Benefits

- » Leading 64-bit architecture to accommodate both 32- and 64- bit operating systems and applications
- » Processor and memory capacity to handle the most cycle-hungry, memory intensive applications
- » Energy efficient design reduces power and cooling requirements, resulting in operating cost saving over the server lifetime
- » Integrated server management simplifies management of critical application servers and large cluster deployments

Applications

- » Enterprise Applications
- » High Performance Clusters
- » Databases
- » Web Server Farms
- » File Servers

Latest Quad Core Power

The new updated Altus models add support for AMD “Shanghai” Quad Core CPUs to this popular AMD-based server line. These new CPUs are manufactured using the state of the art 45nm semiconductor process, resulting in performance increases and lower power consumption over the previous generation AMD CPUs. Continuing the successful AMD Direct Connect Architecture, these platforms provide high performance interconnects from CPU to RAM and I/O expansion slots.

Enterprise Servers

The Altus 1700 (1U) and 2700 (2U) come with availability and management features and options to support a wide range of critical business applications. These enterprise servers can be optioned with redundant power supplies; internal and external RAID storage, hot-swap drives and battery backup. IPMI (Intelligent Platform Management Initiative) for server health monitoring and remote management is standard with all Penguin servers.

High Performance Clustering

The Altus 1702 emphasizes performance and high density in a compact 1U form factor. This platform is ideally suited for medium to large size cluster deployments. This single 1U rackmount enclosure houses two identical Opteron 2-way compute nodes, doubling the available compute power per rack unit. IPMI 2.0 hardware management streamlines deployment and ongoing maintenance of large clusters.

Designed for Linux

All Penguin Altus servers have been tested for compatibility with major Linux distributions. Altus servers are available with Red Hat Enterprise Linux, SUSE Linux Enterprise Server or CentOS preinstalled.



Technical Specifications Altus 1700, 2700, 1702 Servers

	Altus 1700	Altus 2700	Altus 1702
Form Factor	1U	2U	1U, two nodes
Processors	Up to 2 AMD Opteron 2300 series quad core CPUs		
Bus Speed	2000MT/s HyperTransport links between processors and I/O devices		
Cache	512MB per core L2 cache, 6MB shared L3 cache		
Chipset	NVIDIA nForce 3600 Professional		
Memory	Up to 96GB		Up to 128GB
Expansion Slots	PCI-E x16, wired x8, std size PCI-E x8 low profile	PCI-X 64bit/100MHz , std size 2x PCI-E x8, std size 2x PCI-E x8, low profile PCI-E x8, wired x4, low profile	1 x PCI-E x16 low profile
Storage Options	4 x 3.5" SATA or SAS hot swap drives, optional RAID	6 x 3.5" SATA or SAS hot swap drives, optional RAID	2 x 3.5" SATA hot swap drives per node
Network Interfaces	2 x integrated NVIDIA 10/100/1000 Mbps NICs, dedicated 10/100 Mbps management NIC		2 x integrated NVIDIA 10/100/1000 Mbps NICs, inband management via primary NIC
Hardware Management	IPMI 2.0 compatible management processor with dedicated management NIC, remote power control, remote console and server health monitoring		
Dimensions	1.70" H x 16.93" W x 27.38"D	3.44" H x 16.93" W x 27.38" D	1.70" H x 17.2" W x 27.75" D
Power Supply	Standard: 600W Redundant: 2 x 650W	Standard: 700W Redundant: 2 x 700W	Standard: 980W
Warranty	Standard 3-year warranty included with every Penguin Computing Server		

1-888-PENGUIN