



Altus™ 1701, 2701, 1702

New Level of Performance, Compute Power and Efficiency

Penguin Altus line features new AMD Opteron "Istanbul" CPUs with 6 cores

Features

- » Latest AMD Quad and Hexa Core Processors
- » High capacity DDR2 memory
- » High Performance PCI Express 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 6-Core Power

The new Altus models add support for AMD "Istanbul" 6-core CPUs to this popular AMD-based server line. These new "hexa core" CPUs are manufactured using the state of the art 45nm semiconductor process, providing 50% more cores in same physical form factor. 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 1701 (1U) and 2701 (2U) come with availability features, 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 servers have been tested for compatibility with major commercial and free Linux distributions. Altus servers are available with Red Hat Enterprise Linux, SuSE Linux Enterprise Server or CentOS preinstalled. HPC clusters built from Altus servers can be effectively provisioned and managed by Scyld ClusterWare software from Penguin. Scyld ClusterWare is a fifth generation cluster management platform designed to make a cluster as easy to manage as a single system. Scyld ClusterWare has been architected by the 'father' of Linux clustering, Penguin Computing's CTO Donald Becker.



Technical Specifications Altus 1700, 2700, 1702 Servers

	Altus 1701	Altus 2701	Altus 1702
Form Factor	1U	2U	1U, two nodes
Processors	Up to 2 AMD Opteron 2300/2400 series quad/hexa 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 128GB		Up to 128GB per node
Expansion Slots	PCI-E x8, std size RAID controller slot	3x PCI-E x8, std size RAID controller slot	1 x PCI-E x16 low profile
Storage Options	4 x 3.5" SATA or SAS hot swap drives, optional RAID	8 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	Redundant 2 x 650W	Redundant: 2 x 700W	Standard: 980W
Warranty	Standard 3-year warranty included with every Penguin Computing Server		

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