

CGS-6000

2U Carrier Grade Server based on Dual Intel® Xeon® E5 Series Processors

Preliminary



Features

- Dual Intel® Xeon® E5 Series Processors
- Up to 192 GB DDR3 with 12 Registered ECC DIMMs (1333/1600/1866 MHz)
- Supports both 1.5 V and 1.35 V memory models
- PCIe gen3 support
- 4 full-height, full-length PCIe x8 slots
- 2 full-height, half-length PCIe x4 slots
- 4 x 2.5", hot-swappable SAS/SATA HDD/SSD drives
- Carrier Grade BIOS Features
- Support for Telco Alarm Modules
- IPMI 2.0-compliant Remote Management

Introduction

The Advantech CGS-6000 is a highly configurable carrier-grade server designed to balance the best in x86 server-class processing performance with maximum I/O and offload density in a 20" depth chassis. The system is a cost effective, highly available platform optimized to meet next-generation networking equipment needs. It is specifically designed for high density PCIe card payloads where maximum port count is needed or the integration of industry leading offload and acceleration technology is essential. The PCIe I/O is balanced between CPU sockets for optimum throughput. The power and cooling options along with the streamlined mechanical design make it ideal for Digital Signal Processing (DSP) payloads for video encoding/decoding, transcoding and transrating applications. A CG-6000H system variant caters for higher power and cooling requirements when NEBS certification is not mandatory. Architected around two Intel® Xeon® E5 Series processors, the CGS-6000 combines cutting-edge performance with the ruggedness, reliability, and long system lifecycles required by networking equipment providers. The system supports dual Intel® Xeon® E5-2600 and E5-2600v2 processors (95W E5-2658, E5-2620 and 70W E5-2648L) and DDR3 memory up to 384GB with 12 DIMM sockets. The system provides hot-swappable and redundant 1500W(AC) & 1400W(DC) power supply modules, 3 sets of hot-swappable fans, 4 hot-swappable hard disk drives connected to an integrated SAS controller, and 6 PCIe expansion slots. A management card provides 6 GbE Ethernet ports, 4 USB, VGA, and a TAM alarm module connector. The CGS-6000 is designed for NEBS Level 3 carrier grade environments and where limited rack space is available. Interoperability testing is performed with a wide selection of third-party PCIe card vendors.

Specifications

Processor System	CPU	Dual Intel® Xeon® Processor E5-2600 and E5-2600v2 Supports E5-2658 (95W), E5-2620 (95W) and E5-2648L (70W)
	Chipset	Intel® C604 chipset
Memory	Technology	12 x DDR3 DIMMs, ECC/REG memory, 1333/1600/1866 MHz, Supports both 1.5 V and 1.35 V memory model
	Capacity	Up to 384 GB in 12 slots
PCIe	Expansion slot	Total 4 x PCIe x8 (FH/FL), 1 x PCIe x4 (FH/HL), & 1 x Advantech gen2 expansion slots for Advantech LAN card
	Front Mgmt IO	1 x PWR button, 1 x ID button, 1 x RJ45-type console, 2 x USB, LEDs
IO	Rear Mgmt IO	1 x RJ45-type console, 1 x DB15 for TAM (Optional), 2 x USB, 2 x GbE Mgmt ports (1 for IPMI) 4 x GbE Ethernet ports, VGA x 1
	Storage	4 x 2.5", hot-swappable, SAS/SATA HDD/SSD trays in front
Power supply		2U, 1500 W (AC) & 1400 W (DC) redundant power supply
System Management	IPMI	Aspeed AST2300 iBMC + AMI MegaRAC firmware Supports IPMI 2.0 Supports iKVM Shared NIC via NC-SI on management LAN ports
		Dimension (W x D x H)