

CGS-6000

2U Carrier Grade Server based on Dual Intel® Xeon® Processor E5-2600 v2 Series

NEW



Features

- Dual Intel® Xeon® Processor E5-2600 v2 Series
- Up to 512GB DDR3 with 16 Registered ECC DIMMs (1333/1600 MHz)
- Supports both 1.5 V and 1.35 V memory models
- PCIe gen. 3 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
- Front Air Filter

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. CGS-6000H system variant caters for higher power and cooling requirements when NEBS certification is not mandatory. Architected around a dual processor design, the CGS-6000 combines cutting-edge performance with the ruggedness, reliability, and long system lifecycles required by networking equipment providers. The system supports the following Intel® processors: E5-2658 (95W), E5-2620 (95W), E5-2648L (70W), E5-2648LV2 and E5-2658V2 and DDR3 memory up to 512GB with 16 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 telecom 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 as well as Advantech supplied PCIe cards.

Specifications

Processor System	CPU	Dual Intel® Xeon® Processor E5-2600 and E5-2600 v2 Supports E5-2658 (95W), E5-2620 (95W), E5-2648L (70W), E5-2648LV2 and E5-2658V2
	Chipset	Intel® C604 chipset
Memory	Technology	16 x DDR3 DIMMs, ECC/REG memory, 1333/1600 MHz, Supports both 1.5 V and 1.35 V memory modules
	Capacity	Up to 512 GB
PCIe	Expansion slots	4 x PCIe x8 (FH/FL), 1 x PCIe x4 (FH/HL), & 1 x Advantech NIC slot
IO	Front Mgmt IO	1 x PWR button, 1 x ID button, 1 x RJ45-type console, 2 x USB, LEDs
	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)		430 x 508 x 88.6 mm (16.9" x 20" x 3.48")

Ordering information

Part Number	Description
CGS-6000-00E	CGS-6000 2U carrier-grade server, AC
CGS-6000-01E	CGS-6000 2U carrier grade server, DC

Accessory

Part Number	Description
9692G60040E	ASSY GSMB-6000TAM TAM board A101