

MIL-STD RUGGEDIZED 2U SERVER

GERMANE GS2176i 2U HIGH-DENSITY REAR I/O SERVER

The GS2176i is a high-performance 2U rear I/O server with 5 PCI Express slots making it ideal for applications requiring the flexibility of multiple I/O devices combined with the power of dual Intel® 6 core processors. Configurations include up to 2.6TB of hot-swappable disk storage. This rugged computer is built to meet the harsh environmental requirements of today's asymmetrical missions. The COTS-based design lets you customize the GS2176i to meet your exact requirements.

Key features of the GS2176i I/O Server

- Dual 6 core Intel® Xeon® 5600 (Westmere) CPUs
- Up to 96GB DDR3 1333MT/s SDRAM memory
- 5 PCIe® / PCI-X® I/O slots available
- 2.6 TB disk drive storage up to 5 drives
- Hot-swappable drives (HDD or SDD)
- Dual 1G Ethernet ports OMB
- 3 year warranty - standard
- Remote CMOS battery access



GERMANE SYSTEMS

A leading manufacturer of ruggedized COTS based open architecture computer solutions that designs custom solutions for your requirements with rapid in house prototyping.

Germane provides configuration and End of Life (EOL) product management with complete environmental and structural testing capabilities.

DESIGN

TEST

BUILD

SUPPORT

GERMANE
SYSTEMS™

GS2176i SERVER SPECIFICATIONS

Processors and Motherboards

- Dual Socket Intel® Xeon® 5500 or 5600 series processors
- Supermicro X8DTU or X8DTU - (F)
- Integrated Dual Gig Ethernet ports

Memory System

- DDR3 SDRAM memory
- Supports data rates of 1333, 1066 and 800 MHz
- Maximum 96 GB with ECC registered DIMMs
- Minimum 12 GB

Chassis

- Dimensions: 3.5" (h) x 17" (w) x 17" (d)
- Weight: 24 pounds (weight will vary based on config.)
- Construction: 18/20 gauge steel
- Cooling: Forced air (rear vent)
- Mount: 19" rack (slide capable)

Power Supply

- 700W 110/220 VAC (standard)

Front I/O

- 2 USB 2.0 ports
- Power and reset switch
- Airflow selection switch
- Front grounding connection
- Remote CMOS battery access (patent pending)
- Disk drive bays (disk drives or solid state drives)

Graphics

- Integrated Matrox G200eW graphics

Rear I/O

- 2 - 1Gb Ethernet ports
- 2 USB 2.0 ports
- 1 serial port
- PS2 keyboard and mouse connectors
- Graphics port (VGA)

- Power input
- 1 IPMI 2.0 port
- 5 full height I/O slots

Expansion Slots

- 5 full height PCIe and/or PCI-X I/O slots
 - Various riser cards available

Peripheral Bays

- Slim line CD/DVD/Blu-Ray

Disk Drive Bays

- Drive bays are hot swappable (front accessible)
- SATA support standard
- SAS (optional with PCIe RAID controller)
- Hard Disk Drives (HDD) or Solid State Drives (SSD) supported
- One 2.5" x 9.5 SSD drive bay
- Configurable Drive bays
 - 2 - 2.5" x 12 mm SAS/SATA HDD or SSD
 - 4 - 2.5" x 9.5 mm SlimSled SSD

Environmental Specifications

- Operating Temperature: 0°C to +50°C
- Non-Operating Temperature: -40°C to +80°C
- Operating Altitude: 10,000 ASL
- Non-Operating Altitude: 40,000 ASL
- Humidity: RH 95% Non-Condensing

MIL-STD Specifications

- MIL-STD 810F/G
- Shock: MIL-STD 901D Grade A
- Vibration: MIL-STD 167-1
- Airborne Noise: MIL-STD 1474D
- Structure Borne Noise: MIL-STD 740-2

Germane Systems, LC designs all products to meet or exceed the specifications listed. Due to the multiple combinations of CPUs, main boards, memory peripheral cards, HDD and SSDs available in our modular COTS configurations it is not practical to test every combination. Please contact your Germane Systems representative for qualification testing specific to the desired configuration for your application.

BUILT IN THE USA

ISO 9001:2008 CERTIFIED COMPANY

WOMAN OWNED SMALL BUSINESS

3680 Centerview Dr., Chantilly, VA 20151

Phone 703.502.8890 sales@germane.com www.germane.com

