

MIL-STD RUGGEDIZED 16 TB NAS SERVER

GERMANE GS2500 HIGH DENSITY STORAGE SERVER

The GS2500, a ruggedized Storage Server has the highest drive capacity of any 2U server. This dual processor server includes 16 disk or solid-state drives. The COTS-based architecture lets you meet your mission critical requirements by customizing the GS2500 as a 16TB NAS appliance or powerful core server. The 16TB of storage and processing power in a single chassis is ideal for capture of SONAR, Radar or video.

Key features of the GS2500 Storage Server

- Dual 6 core Intel® Xeon (Westmere) CPUs
- 96GB (max) DDR3 1333MHz SDRAM memory
- 6G SAS/SATA RAID controllers supported
- 16TB disk drive storage
- Hot swappable drives
- 3 year warranty
- 1M IOPS solid state drive
- 2 - 10G Ethernet ports



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



GS2500 STORAGE SERVER SPECIFICATIONS

Processors and Motherboards

- Dual Socket Intel® Xeon 5500 or 5600 L-Series
- Supermicro X8DTU or X8DTU-F
- QPI up to 6.4 GT/s
- Intel 5520 (Tylersburg) Chipset

Memory System)

- 3 GB to 96 GB DDR3 DRAM
- 12x 240 pin DIMM slots
- ECC, Registered DIMMs
- Unregisterd DIMM (48GB max.)
- DDR3 Data rates 800 /1066 /1333MT/s
- 1.5 or 1.3 volt support

Chassis

- 2U 3.5 inches high
- 19 inches wide
- 18 inches deep
- Front I/O
- Front access drive sled with 16 hot swappable drives
- Minimum Weight of chassis (no drives or options) 38 pounds
- Maximum Weight of chassis (16 2.5 inch disk drives and all options) 48 pounds
- Sliding rail or chassis mounting

Expansion Slots

- 4 Full height, half length, X8 PCI-E 2.0
 - PCIe and/or PCI-X configurable
 - Full height
 - Various riser cards available

Graphics

- Integrated Matrox G200eW Graphics

Rear I/O

- Remote accessible BIOS battery

Front I/O

- 2 USB 2.0 ports
- 1 serial port
- PS2 keyboard and mouse connectors
- Graphics port (integrated)
- 1 IPMI 2.0 port (RJ45)
- 2 Gb Ethernet ports (RJ45)
- Power input connector
- Disk drive bay 2.5" x 9mm SSD
- Disk Drive tray (slideout)
 - multi-colored drive activity LEDs

Power Supply

- 400W 110/220 VAC (STD)
- 400W 24/48 VDC (Optional)

Peripheral Bays

- 16 2.5 inch SAS/SATA Hard Disk Drives (HDD) or Solid State Drives (SSD)
- Drives are hot swappable
- 2.5 inch x 9.5 mm SlimSled HDD/SSD bay
- 6Gbps SAS/SATA with Raid 0,1, 5 10

Environmental Specifications

- Operating Temperature: 0°C to +50°C (inlet temperature)
- 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 810G
- Shock: MIL-STD 910D Grade A
- Vibration: MIL-STD 167D-1 and 167D-2
- Airborne Noise: MIL-STD 740-1
- Structure Borne Noise: MIL-STD 740-2
- Airflow 45 CFM at 45C inlet air temperature

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

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