FlashServer™ Rugged Server FS-2600 Series

Rugged Intel Xeon E5-2600 Server Supports 16 Cores & Petabyte of Data For Demanding Environments at COTS Prices

Rugged Durability, Outstanding Performance and Expandability In a Small Space

FlashServer FS-2600 is a rugged 2U Intel server that delivers high performance in demanding environments, combining high-speed Intel processors with advanced thermal and mechanical design. Supporting single or dual Intel Xeon E5-2600 64-bit CPUs and up to 16 processor cores, the system holds up to six hot-swappable 2.5-inch SAS hard drives or solid-state disks (SSDs).

Combine Rugged FlashServer FS-2600 with Rugged FlashDisk data storage, expandable to over a petabyte, for a complete rugged environment.

The FS-2600 is NEBS-3 compliant for telco configurations, and meets MIL-STD-810G environmental specs. Only 20" deep, it runs 50% cooler than typical 28" to 30" servers, and provides high reliability in shock and vibration environments of up to 25G. The system is cooled by four redundant, hot-swappable fans with temperature driven fan speed for optimal cooling on demand, and is available with AC or DC power.

Expanding the network and I/O capabilities of FlashServer is easy. Commercial off-the-shelf networking and host-bus adapter cards can be installed in two to five 3rd-Gen full height PCIe slots. The FS-2600 features two PCIe riser assemblies. Each riser is configured to contain either one (1) PCIe x16 or two (2) PCIe x8 horizontal full-height connectors. Dual-processor systems support one additional full-height PCIe x16 or x8 slot.

Rear view of FlashServer FS-2600 showing one external PCIe x16 (center) and four PCIe x8 slots. Configurations of up to three external PCIe x16 slots are also available.

Rugged FlashDisk External Data Storage

Over 1 PB of external, Rugged FlashDisk® RAID storage can be added in 1U, 2U and 3U rack-mount building block sizes to accompany FlashServer in the most demanding environments. The 1U product offers 2.5" disk drives for compact size and exceptional performance and low power. 2U and 3U systems offer both 2.5" and 3.5" SAS disk drives with 12 and 16 drives per shelf, expandable to eight shelves total with a maximum capacity per array of over 1 PB. Multiple arrays can be attached to a single server. Best of all, acquiring rugged servers and storage designed to work together from one vendor provides a single point of service—and peace of mind.

FlashServer FS-2600

Designed for High Reliability in harsh operating environments

Rugged Features
- NEBS-3 certification
- Designed for MIL-STD-810G
- Heavy-duty dust filters - easy to replace
- Quad removable temperature drive fans
- Rugged strain reliefs for host cables

Server Capabilities
- Intel Xeon E5-2600 CPUs to 16 cores
- Up to 256 GB memory
- Up to 5 full PCIe expansion slots
- Supports over 1 PB of data storage
- Supports iSCSI, SAS and Fibre Channel
- Rackmount slides included

FlashServer FS-2600 Specifications	
Dimensions	17.14" x 20" x 3.45"
Processor	*Single/Dual Intel E5-2600 CPU - 16 total cores*
Chassis	*NEBS-3 compliant; designed to MIL-STD-810G*
Maximum Memory	256 GB memory in 16 DIMMS, 1,600 MHz
PCIe Expansion Slots	Up to three Gen-3 x16 or up to five x8
2.5" SAS Disk Bays	6 locking hot-swap disks
Supported Disks	HDD to 1.0 TB; SSD to 2.0 TB
Hardware RAID Controller	RAID 1 & 0; LSI 6 Gb SAS2008
Power Supplies	650W AC or 650W DC -48V
AC Power	Dual 110-240VAC, 50-60 Hz, 5-10A
Cooling	4 redundant, hot-swap, temperature-driven fans
Front Panel	Removable with dust filter
Standard Ports	4 x 1GbE, 4 USB 2.0, 1 VGA, 1 RS-232
Weight	40 pounds fully loaded
Operating Temp.	5° to 40°C
Non-Operating Temp.	-40° to 70°C
Altitude	-197 to 5,906 feet @40°C max 5,906 to 13,123 feet @30°C max
Humidity	5% to 95% (38° C) non-condensing

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