M418S - 4U RUGGED RACKMOUNT SERVER

Rugged System Built for Extreme Environments

The rugged M418S is a short-depth 4U rackmount server built for applications that require speed, reliability, and security. The high-performance M418S is designed to save space without sacrificing power thanks to our SWaP-Optimized design.

CUSTOM BUILT
RUGGED SYSTEM

4X HOT-SWAP DRIVE

- ALL-ALUMINUM CHASSIS
- LATEST NVIDIA® TECHNOLOGY
- LATEST INTEL® TECHNOLOGY
- MIL-SPEC TESTED
- BUILT IN THE USA

Built with ultra-sturdy all-aluminum chassis, this rugged computer features four shock-mounted hot-swap drives and supports the latest Intel® Quad and Hexa-Core CPUs while providing five full-height PCIe slots on the rear of the chassis. The rugged M418S includes the latest single-stack NVIDIA® Tesla® GPU Card which provides our customers with high-performance data analytics and scientific computing abilities.

For more info on the M418S 4U server, please visit www.core-systems.com

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TECHNICAL SPECIFICATIONS

MECHANICAL	Height - 7.0 in (17.78 cm), Width - 17.75 in (45.08 cm), Depth - 18.00 in (45.72 cm) Weight - 45-50 lbs (20.41-22.68 kg)
CPU	Latest Dual Intel® Xeon® CPUs
EXPANSION SLOTS	Five (5) full-height, 3/4 length slots Multiple PCIe slot combinations are available
EXTERNAL BAYS	4x removable hot-swap SATA or SAS 2.5 or 3.5 HDDs
COOLING	Thermostatically controlled via motherboard
POWER SUPPLY	Option 1- (std) 600W AC power supply Option 2- 28VDC power supply
SYSTEM BOARD	Extended ATX Motherboard
CHASSIS TYPE	Lightweight aluminum chassis

ENVIRONMENTAL SPECIFICATIONS

OPERATIONAL TEMP.	MIL-STD-810F, Method 501.5 Procedures I/II; -15˚C to +55˚C
STORAGE TEMP.	MIL-STD-810F, Method 501.5, Procedures I/II; -55˚C to +85˚C
HUMIDITY	MIL-STD-810F, Method 507.4; 48 Hour, 95% RH 40-65C (with conformal coat option)
ALTITUDE	MIL-STD-810F, Method 500.4; 12,500ft operation with 40,000ft transport
VIBRATION	MIL-STD-810G, Method 514.6 Procedure I; 4.43 GRMS, 5-20000Hz, 60min/axis
SHOCK	MIL-STD-810G, Method 516.6, Procedures I/V; 20g, 11msec - functional shock; 40g, 11msec crash hazard shock
OTHER	MIL-STD-461F CE & RE emissions (with 461 filter option)

CORE SYSTEMS
ENGINEERED TO PERFORM

ABOUT US

Core Systems is a premier manufacturer of best-in-class rugged computers and rugged displays. We design and manufacture all of our products in Poway, California. Our 65,000+ square foot facility features onsite engineering, assembly, and testing along with a complete metal fabrication and machining facility. Our wide range of rugged products are deployed in ground vehicles, aircraft, and maritime installations worldwide.