M318S - 3U RUGGED RACKMOUNT SERVER

Rugged System Built for Extreme Environments

The rugged M318S is a short-depth 3U rackmount server built for applications that require speed, reliability, and security. The high-performance M318S 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 six full-height PCIe slots on the rear of the chassis. The rugged M318S 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 M318S 3U server, please visit www.core-systems.com

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TECHNICAL SPECIFICATIONS

MECHANICAL	Height - 5.25 in (13.335 cm), Width - 17 in (43.18 cm), Depth - 18.00 in (45.72 cm) Weight - 30-35 lbs (13.60-15.87 kg)
CPU	Latest Dual Intel® Xeon® CPUs
EXPANSION SLOTS	Six (6) 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	Redundant 600W
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.