CORE SYSTEMS



RUGGED M318S SERVER

Military-Grade Rugged 3U Rackmount Server

The **M318S** is engineered for demanding environments, offering a rugged 3U short-depth design built for reliable performance where space and durability are critical. Its robust sheet-metal chassis is tested to military specifications, with an application-specific build and transit-ready options suited for defense, aerospace, and mobile deployments.

Powered by the latest Intel® Xeon® scalable processors and supporting the latest NVIDIA® GPUs, the M318S delivers strong compute and graphics performance. With high-capacity memory, flexible storage, and efficient thermal management, it provides a dependable, customizable platform for mission-critical workloads in harsh conditions.

- Application-specific design
- Tested to meet military standards
- Built in the USA

Featured Specifications

CPU
Latest Intel Xeon Scalable Processor

GPU
Latest NVIDIA GPU Graphics Card

RAM
Up to 2TB

Power
Power options available

Chassis Type
Aircraft-Grade Aluminum

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Technical Specifications

Dimensions
Height: 5.25 inches, Width: 17.00 inches, Depth: 16.00 inches
Weight: 30-35.00 lbs

CPU
Latest Intel Xeon Scalable Processor

GPU
Latest NVIDIA GPU Graphics Card

RAM
Up to 2TB

Expansion Slots
Qty: 6, low profile

External Bays
Qty: 2

USB Ports
Qty: 4

Power Supply
28VDC, 600W AC

PCIE Expansion
Multiple slot combinations available

Storage SSD
Up to 15.36TB NVMe

System Board
Extended ATX Motherboard

Cooling
80mm high speed, high volume fans

Environmental Specifications

Operational Temperature
-15°C to +55°C; MIL-STD-810F, Method 502.4 Procedure II (Low Temperature) and Method 501.4 Procedure II (High Temperature)

Storage Temperature
-55°C to +85°C; MIL-STD-810F, Method 502.4 Procedure I (Low Temperature) and Method 501.4 Procedure I (High Temperature)

Humidity
MIL-STD-810F, Method 507.4: 95% RH, 48 hours at 40 – 65°C

Altitude
MIL-STD-810F, Method 500.4: 12,500 ft operation; 40,000 ft transport

Vibration
MIL-STD-810G, Method 514.6: 4.43 GRMS, 5-20000Hz, 60 min/axis

Shock
MIL-STD-810G, Method 516.6: 20g, 11ms functional; 40g, 11ms crash hazard

EMC
MIL-STD-461F: CE & RE emissions

Work With Core Systems Today

Core Systems designs and builds rugged servers, displays, mission computers, and integrated cabinet solutions for military and industrial applications. From our 85,000 sq. ft. San Diego facility, we deliver cutting-edge, durable computing solutions for mission-critical needs.



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