



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



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

MIL-STD-810F, Method 501.5, Procedures I/II: -15°C to +55°C

Storage Temperature

MIL-STD-810F, Method 501.5, Procedures I/II: -15°C to +55°C

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

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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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