CORE SYSTEMS



RUGGED M418S SERVER

Military-Grade 4U Rackmount Server

The **M418S** is a rugged 4U server built for mission-critical applications that demand high performance, storage, and durability in harsh environments. Constructed from heavy-duty sheet metal and tested to meet military-grade standards, the M418S features a short-depth, SWaP-optimized design ideal for tactical, aerospace, and defense operations where space and reliability are crucial.

Powered by the latest Intel® Xeon® scalable processors, the M418S delivers advanced computing for data-intensive workloads. It supports the latest NVIDIA® GPUs and flexible, high-capacity storage options to accelerate AI, edge computing, and data processing tasks. With a modular, application-specific architecture and transit-ready configurations, the M418S offers customizable performance built to meet evolving mission demands.

- 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
28VDC, 600W AC

Chassis Type
Aircraft-Grade Aluminum

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Technical Specifications

Dimensions
Height: 7.00 inches, Width: 18.00 inches, Depth: 17.75 inches
Weight: 45-50 lbs

CPU
Latest Intel Xeon Scalable Processor

GPU
Latest NVIDIA GPU Graphics Card

RAM
Up to 2TB

Expansion Slots
Qty: 5, low profile

External Bays
Qty: 2

USB Ports
Qty: 6

Power Supply
28VDC, 600W AC

System Board
Extended ATX Motherboard

Storage SSD
Up to 15.36TB NVMe

Cooling
90mm high speed, high volume fans

Enviromental 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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