



## 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

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### 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



## 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

## 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

## 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.

### Core Systems

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