



RUGGED M418 SERVER

Military-Grade Rugged 4U Rackmount Server

The **M418** is a rugged 4U server designed for high-density GPU performance in demanding environments. Built with a durable, short-depth chassis and tested to meet military specifications, it supports multiple double-width GPUs and front-access I/O for streamlined serviceability in mission-critical deployments.

Powered by the latest Intel® Xeon® scalable processors and supporting the latest NVIDIA® GPUs, the M418 delivers exceptional performance for AI, machine learning, and data-intensive workloads. With high memory capacity, extensive PCIe expansion, and flexible AC/DC power options, it provides a scalable and customizable platform for defense, aerospace, and industrial applications.

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

CPU

Latest Intel Xeon Scalable Processor

GPU

Latest NVIDIA GPU Graphics Card

RAM

Up to 2TB

Expansion Slots

Qty: 14, full height

External Bays

Qty: 12

USB Ports

Qty: 8

Power Supply

28VDC, 500W AC

PCIe Expansion

Multiple slot combinations available

Storage SSD

Up to 15.36TB NVMe

System Board

Extended ATX Motherboard

Cooling

Thermostatically controlled via motherboard

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.

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