



RUGGED M118 SERVER

Military-Grade 1U Server

The **M118** is a rugged 1U server engineered for short-depth rackmount applications where space, durability, and performance are key. Built with an all-aluminum chassis and just 18 inches deep, it's optimized for military and industrial deployments requiring compact, reliable computing. Tested to MIL-STD-810 standards, the M118 withstands shock, vibration, and harsh environmental conditions.

Powered by Intel® Xeon® Scalable processors and optional NVIDIA GPUs, the M118 delivers high-performance computing in a rugged, SWaP-optimized form factor. It features robust thermal management, secure front-facing I/O, and supports PCIe and GPU expansion. With a lightweight, transit-ready chassis, it's ideal for mobile, edge, and mission-critical operations across defense, aerospace, and industrial sectors.

- 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: 1.75 inches, Width: 17.75 inches, Depth: 18.00 inches
Weight: 15-21 lbs

CPU

Latest Intel Xeon Scalable Processor

GPU

Latest NVIDIA GPU Graphics Card

RAM

Up to 2TB

Expansion Slots

Qty: 1, full height

External Bays

Qty: 2

USB Ports

Qty: 4

Power Supply

28VDC, 400W AC

System Board

Extended ATX Motherboard

Storage SSD

Up to 15.36TB NVMe

Chassis

Lightweight aluminum chassis

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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