CORE SYSTEMS

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

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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

Enviromental 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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