CORE SYSTEMS



RUGGED M120S SERVER

Military-Grade 1U Short-Depth Server

The **M120S** is a rugged 1U server built with heavy-duty sheet metal and an ultra-sturdy all-aluminum chassis, designed for short-depth, mission-critical applications. Tested to meet MIL-STD 810 and 461 standards, it meets military-grade durability for demanding environments. Shock-mounted, hot-swappable drives and secure cable retention enable easy maintenance and reliable operation.

Powered by the latest Intel® Xeon® scalable processors, and NVIDIA GPUs, the M120s offers strong compute and graphics performance. With up to three PCIe Gen 4 slots, flexible AC/DC power, a compact 20-inch depth, and transit options, it's built for tactical, mobile, and rugged enterprise deployments.

- 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: 20.00 inches
Weight: 15-21 lbs

CPU
Latest Intel Xeon Scalable Processor

GPU
Latest NVIDIA GPU Graphics Card

RAM
Up to 2TB

Expansion Slots
Qty: 2, full height

External Bays
Qty: 4

USB Ports
Qty: 6

PCIE Expansion
Multiple slot combinations available

Power Supply
28VDC, 500W AC

System Board
Extended ATX Motherboard

Storage SSD
Up to 15.36TB NVMe

Chassis
Lightweight aluminum chassis

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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