



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



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

PCI-E 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

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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