



RUGGED M120S-01 SERVER

Military-Grade 1U Short-Depth Server

The **M120S-01** is a rugged 1U server built with durable sheet metal and an ultra-sturdy all-aluminum chassis, engineered for short-depth, mission-critical applications. Tested to meet MIL-STD 810 and 461 standards, it delivers military-grade reliability for demanding environments.

Supporting the latest Powered by the latest Intel® Xeon® scalable processors and NVIDIA GPUs, the M120S-01 provides powerful compute and graphics performance. Its application-specific, military-grade design includes up to three PCIe Gen 4 slots, flexible AC/DC power options, and a compact 20-inch depth. Transit-ready configurations ensure it's ideal 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: 1, full height

External Bays

Qty: 2

USB Ports

Qty: 3

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

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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