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#### **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 PCle 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

Latest NVIDIA GPU Graphics Card

#### **RAM**

Up to 2TB

#### **Power**

Power options available

#### **Chassis Type**

Aircraft-Grade Aluminum

# **CORE SYSTEMS**

#### **RUGGED M120S-01 SERVER**



# **Technical Specifications**

Height: 1.75 inches, Width: 17.75 inches, Depth: 20.00 inches Weight: 15-21 lbs

CPU

Latest Intel Xeon Scalable Processor

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

### **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

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

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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