



RUGGED M122 SERVER

Military-Grade 1U Short-Depth Server

The **M122** is a rugged, short-depth 1U rackmount server designed for space-constrained and demanding environments where performance, reliability, and system integrity are critical. It features a SWaP-optimized architecture and an aircraft-grade aluminum chassis tested to meet military specifications, ensuring stability under shock and vibration for mission-critical applications, but without adding unnecessary size or complexity.

The platform supports the latest Intel® Xeon® processors and NVIDIA® GPUs, and includes six shock-mounted hot-swap drive bays and a rear full-height PCIe expansion slot for flexible storage and I/O. Its modular, serviceable design and transit-ready options make it well-suited for mobile and field 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: 6

USB Ports

Qty: 3

PCI-E Expansion

Multiple slot combinations available

Power Supply

28VDC, 600W 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: -55°C to +85°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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