CORE SYSTEMS



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

Copyright 2026 All Rights Reserved

CORE SYSTEMS

RUGGED M122 SERVER



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

PCIE 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
-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 Procedure I; 4.43 GRMS, 5-2000Hz, 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.



Core Systems
13000 Danielson St
Poway, CA 92064