CORE SYSTEMS

RUGGED M222-01 SERVER

Military-Grade 2U Server

The **M222-01** is a rugged 2U server built with aircraft aluminum and made for applications that require short-depth solutions. The Rugged M222-01 server has been tested to meet military specifications, including MIL-STD-810 and 461 standards, ensuring durability in the harshest environments.

Powered by Intel® Xeon® Scalable processors and supporting up to two NVIDIA GPUs, the M222-01 delivers high-performance computing and advanced graphics capabilities. With up to three PCIe Gen 4 slots, flexible AC/DC power options, and a 20-inch chassis depth, it's engineered for mobile platforms, tactical systems, and rugged edge deployments where space and reliability are critical.

- 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

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Technical Specifications

Dimensions
Height: 3.50 inches, Width: 17.75 inches, Depth: 22.00 inches
Weight: 30-35 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: 3

PCIE Expansion
Multiple slot combinations available

Power Supply
120/240VAC, 24VDC

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

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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