**CORE SYSTEMS**

## RUGGED M224S SERVER

### Military-Grade 2U Rackmount Server

The **M224S** is a rugged 2U short-depth server engineered for high-performance computing in demanding operational environments. Constructed in a rugged all-aluminum chassis, the M224S is optimized for SWaP-sensitive deployments across defense, aerospace, and industrial sectors. Featuring front-access I/O, hot-swappable drives, and MIL-STD-810 compliance, it's built to withstand shock, vibration, and extreme temperatures.

Powered by the latest Intel® Xeon® scalable processors and supporting up to 1TB of DDR5 ECC memory, the M224S delivers exceptional performance in a SWaP-optimized 2U design. With advanced thermal management and flexible expansion options, the M224S is ideal for edge computing, tactical data centers, and mobile command platforms.

- 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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FRONT

BACK

## Technical Specifications

**Dimensions**
Height: 3.50 inches, Width: 17.75 inches, Depth: 24.00 inches
Weight: 30-35 lbs

**CPU**
Latest Intel Xeon Scalable Processor

**GPU**
Latest NVIDIA GPU Graphics Card

**RAM**
Up to 2TB

**Expansion Slots**
Qty: 3, full height

**External Bays**
Qty: 4

**USB Ports**
Qty: 6

**Power Supply**
Power options available

**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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