RUGGED M314 SERVER

Military-Grade 3U Rackmount Server

The **M314** is a rugged 3U server built for performance-intensive applications in harsh and mission-critical environments. Designed with a durable, short-depth sheet-metal chassis, it's SWaP-optimized for military, aerospace, and industrial platforms requiring powerful, field-deployable performance. Shock-rated components, dual NVMe drive bays, and front-access I/O ensure reliability and serviceability in extreme conditions.

Powered by the latest Intel® Xeon® scalable processors and supporting the Latest NVIDIA GPU Graphics Card, the M314 delivers scalable compute and AI performance. With efficient cooling, flexible power options, and MIL-STD-810F/G and 461F compliance, it's ideal for edge AI, tactical systems, and rugged mobile 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

FRONT

BACK

Technical Specifications

Dimensions
Height: 5.25 inches, Width: 17.00 inches, Depth: 14.00 inches
Weight: 30-35 lbs

CPU
Latest Intel Xeon Scalable Processor

GPU
Latest NVIDIA GPU Graphics Card

RAM
Up to 2TB

Expansion Slots
Qty: 6, low profile

External Bays
Qty: 2

USB Ports
Qty: 4

Power Supply
Power options available

System Board
Extended ATX Motherboard

Storage SSD
Up to 15.36TB NVMe

Cooling
80mm high speed, high volume vans

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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