CORE SYSTEMS



RUGGED M415 SERVER

Military-Grade Rugged 4U Rackmount Server

The **M415** is a rugged 4U server built for high-performance computing in demanding environments where scalability and reliability are essential. Designed with a durable chassis and tested to meet military specifications, it supports multiple GPUs, extensive PCIe expansion, and high-capacity memory for data-intensive applications across defense, aerospace, and industrial deployments.

Powered by the latest Intel® Xeon® scalable processors and advanced NVIDIA® GPUs, the M415 delivers powerful compute and graphics performance. With flexible storage options, customizable AC/DC power, and application-specific configurations, it's built to meet evolving mission requirements in both fixed and mobile 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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Technical Specifications

Dimensions
Height: 7.00 inches, Width: 17.75 inches, Depth: 15.00 inches
Weight: 50-55 lbs

CPU
Latest Intel Xeon Scalable Processor

GPU
Latest NVIDIA GPU Graphics Card

RAM
Up to 2TB

Expansion Slots
Qty: 12, full height

External Bays
Qty: 4

USB Ports
Qty: 4

Power Supply
120/240VAC, 24VDC, 750W

PCIE Expansion
Multiple slot combinations available

Storage SSD
Up to 15.36TB NVMe

System Board
Extended ATX Motherboard

Cooling
Thermostatically controlled via motherboard
120mm high speed
high volume fans

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: 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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