



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



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

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.

Core Systems

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