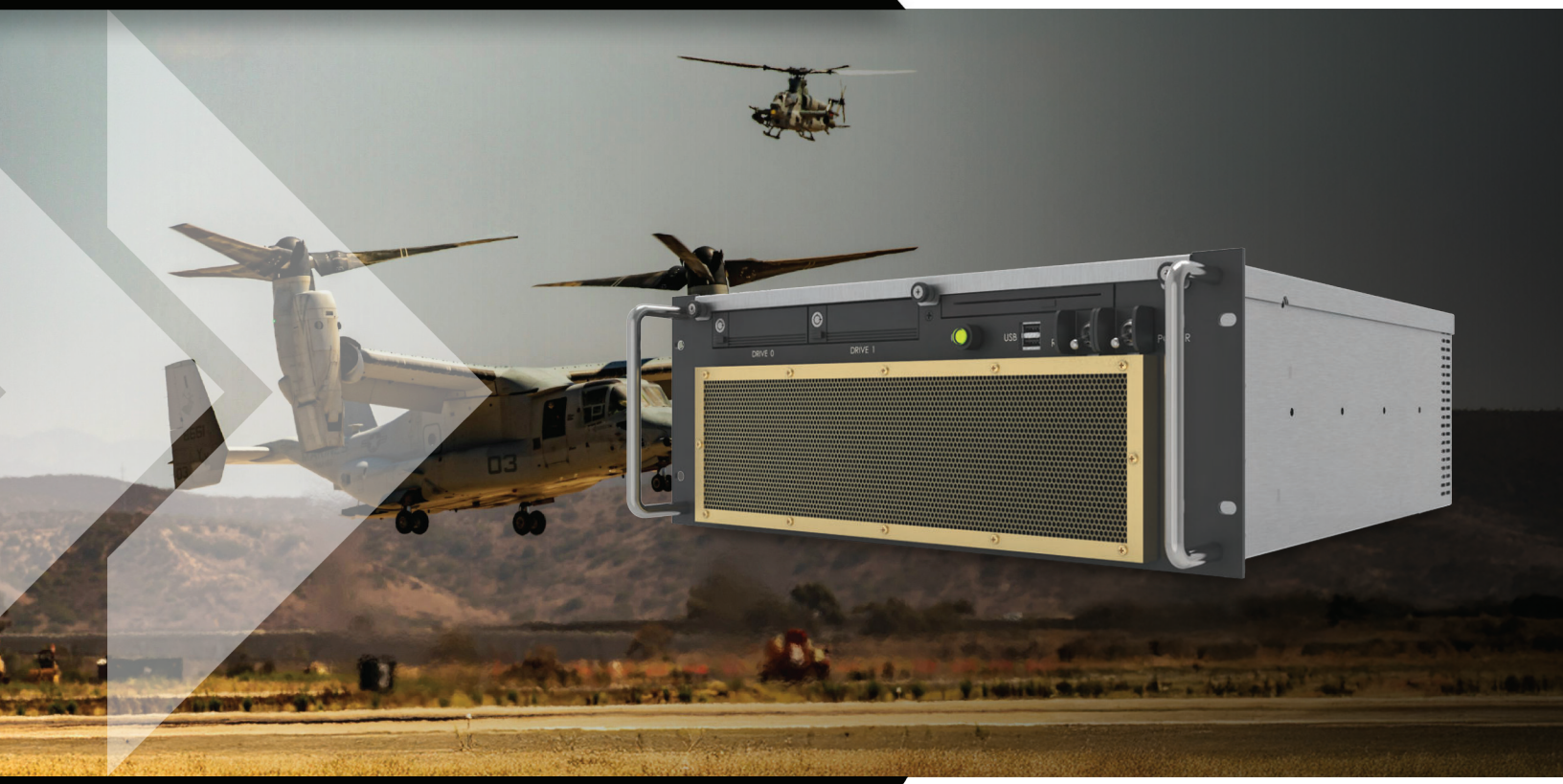
CORE SYSTEMS



RUGGED F420 SERVER

Military-Grade 4U Rugged Rackmount Server

The **F420** is a rugged 4U server built for high-performance computing in the most demanding and mission-critical environments. Designed in a durable, short-depth chassis, it's SWaP-optimized for military, aerospace, and industrial platforms that require scalable, field-ready performance. With shock-rated internals, and front-access I/O, the F420 ensures durability and reliability in extreme conditions.

Powered by the latest Intel® Xeon® scalable processors, and supporting up to dual-slot NVIDIA RTX GPUs, the F420 delivers exceptional graphics, compute, and AI performance. With tool-less drive access, high-speed cooling, and MIL-STD-810F/G compliance, the F420 is ideal for field-deployed compute systems, rugged edge environments, and real-time data processing applications.

- 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
28VDC, 500W AC

Chassis Type
Aircraft-Grade Aluminum

CORE SYSTEMS

RUGGED F420 SERVER

Technical Specifications

Dimensions
Height: 7.00 inches, Width: 17.75 inches, Depth: 20.00 inches
Weight: 45-50 lbs

CPU
Latest Intel Xeon Scalable Processor

GPU
Latest NVIDIA GPU Graphics Card

RAM
Up to 2TB

Expansion Slots
Qty: 14, full height

External Bays
Qty: 12

USB Ports
Qty: 8

Power Supply
28VDC, 500W AC

System Board
Extended ATX Motherboard

Storage SSD
Up to 15.36TB NVMe

Cooling
Thermostatically controlled via motherboard

Chassis Type
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

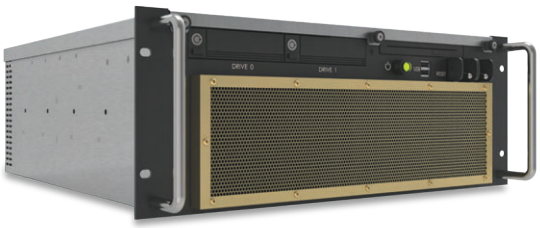
Vibration
MIL-STD-810G, Method 514.6: 4.43 GRMS, 5-20000Hz, 60 min/axis

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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