

# M220S - 2U RUGGED RACKMOUNT SERVER

## *Rugged System Built for Extreme Environments*

The rugged M220S is a short-depth 2U rackmount server built for applications that require speed, reliability, and security. The high-performance M220S is designed to save space without sacrificing power thanks to our SWaP-Optimized design.



## CUSTOM BUILT RUGGED SYSTEM



### **6X HOT-SWAP DRIVE**

- ▶ ALL-ALUMINUM CHASSIS
- ▶ LATEST NVIDIA® TECHNOLOGY
- ▶ LATEST INTEL® TECHNOLOGY
- ▶ MIL-SPEC TESTED
- ▶ BUILT IN THE USA



Built with ultra-sturdy all-aluminum chassis, this rugged computer features six shock mounted hot-swap drives and supports the latest Intel® Quad and Hexa-Core CPUs while providing three full-height PCIe slots on the rear of the chassis. The rugged M220S includes the latest single-stack NVIDIA® Tesla® GPU Card which provides our customers with high-performance data analytics and scientific computing abilities.

**For more info on the M220S 2U server, please visit [www.core-systems.com](http://www.core-systems.com)**

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## TECHNICAL SPECIFICATIONS

MECHANICAL	Height - 3.5 in (8.89 cm), Width - 17.75 in (45.08 cm), Depth - 20.00 in (50.8 cm) Weight - 30-35 lbs (13.60-15.87 kg)
CPU	Latest Dual Intel® Xeon® CPUs
EXPANSION SLOTS	Three (3) full-height, 3/4 length slots Multiple PCIe slot combinations are available
EXTERNAL BAYS	Option 1- Six (6) removable hot swap SATA or SAS 2.5 or 3.5 HDDs Option 2- Six (6) removable hot swap 2.5 SATA SSD HDDs Option 3- (offered along with option 1 or 2) One (1) slim line CD/DVD (R/W) or Blu-ray ODD
COOLING	Thermostatically controlled via motherboard
POWER SUPPLY	Redundant 500W
SYSTEM BOARD	Extended ATX Motherboard
CHASSIS TYPE	Lightweight aluminum chassis

## ENVIRONMENTAL SPECIFICATIONS

OPERATIONAL TEMP.	MIL-STD-810F, Method 501.5 Procedures I/II; -15°C to +55°C
STORAGE TEMP.	MIL-STD-810F, Method 501.5, Procedures I/II; -55°C to +85°C
HUMIDITY	MIL-STD-810F, Method 507.4; 48 Hour, 95% RH 40-65C (with conformal coat option)
ALTITUDE	MIL-STD-810F, Method 500.4; 12,500ft operation with 40,000ft transport
VIBRATION	MIL-STD-810G, Method 514.6 Procedure I; 4.43 GRMS, 5-20000Hz, 60min/axis
SHOCK	MIL-STD-810G, Method 516.6, Procedures I/V; 20g, 11msec - functional shock; 40g, 11msec crash hazard shock
OTHER	MIL-STD-461F CE & RE emissions (with 461 filter option)



### ABOUT US

Core Systems is a premier manufacturer of best-in-class rugged computers and rugged displays. We design and manufacture all of our products in Poway, California. Our 65,000+ square foot facility features onsite engineering, assembly, and testing along with a complete metal fabrication and machining facility. Our wide range of rugged products are deployed in ground vehicles, aircraft, and maritime installations worldwide.