

# M114 - 1U RUGGED RACKMOUNT SERVER

## Rugged System Built for Extreme Environments

The rugged M114 is a short depth 1U server with an overall depth of 14". The SWaP-optimized M114 has been ruggedized to withstand the harsh environments of the military. The machined aircraft aluminum chassis provides a superior strength to weight ratio allowing aircraft, tanks, and ships to add flexibility and reliability in their computing needs.



## CUSTOM BUILT RUGGED SYSTEM



### **2X HOT-SWAP DRIVES**

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



The ultra-sturdy all aluminum chassis supports dual shock mounted hot-swap drives and a shock mounted DVDRW. All internal cabling is customized and secured to the chassis to optimize airflow and system cooling. The M114 supports the latest Intel® Quad and Hexa-Core CPUs while providing one open PCIe slot on the rear of the chassis. The additional PCIe feature card is secured to the chassis via a proprietary card hold-down system.

**For more information on the M114 1U server, please visit [www.core-systems.com](http://www.core-systems.com)**

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THE EMBEDDED EDGE

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## TECHNICAL SPECIFICATIONS

MECHANICAL	Height - 1.75 in (4.45 cm), Width - 19 in (48.26 cm), Depth - 14.00 in (35.56 cm) Weight - 15-21 lbs (6.80-9.52 kg)
CPU	Latest Dual Intel® Xeon® CPUs
EXPANSION SLOTS	One (1) full-height, 3/4 length slot Multiple PCIe slot combinations are available
EXTERNAL BAYS	Option 1 (std): Two (2) removable hot swap SATA or SAS 2.5 HDDs Option 2: Two (2) removable hot swap 2.5 SATA SSD HDDs Option 3 (offered w/ option 1 or 2): One (1) slim line CD/DVD (R/W) or Blu-ray ODD
COOLING	Thermostatically controlled via motherboard
POWER SUPPLY	Option 1 - (std) 400W AC power supply Option 2 - 28VDC power supply
SYSTEM BOARD	Extended ATX Motherboard
POWER	AC adapter (150W, 100-240V, 50/60Hz); Dual Li-Ion smart batteries (6600mAh each)

## 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.