



Rugged M220 2U Server

Short-Depth SWap-Optimized 2U Server



The M220 Raptor is a short depth 2U server made for applications with a maximum 20" depth requirement. The machined aircraft aluminum chassis provides a superior strength to weight ratio. The M220 rugged system has four front-accessible hot-swap drives and dual Xeon v4 CPUs with the option of three additional rear accessible PCI cards. All internal cabling is customized and secured to the chassis to optimize airflow and system cooling. The M220 server is built to survive high shock and vibration environments. Options for conformal coating and EMI filtering are offered on each system.

Rugged Military Grade 2U Server

Chassis Height and Depth: 2U, 20" short depth chassis

Drive Count: Four (4) removable hot swap SATA or SAS 2.5 or 3.5 HDDs

CPU Series: Intel E5-2600v4 Series CPUs

Power Supply Option: Redundant AC or DC power supplies

Open Slot Count: Three (3) full-height, 3/4 length slots

Type of Chassis: Lightweight milled aluminum chassis



Technical Specifications

Environmental Specifications:	Operational Temperature Range: MIL-STD-810F/G, Method 501.5, Procedures I/II; -10C to +50C with solid state drives Storage: MIL-STD-810F/G, Method 501.5, Procedures I/II; -40C to +75C Humidity: MIL-STD-810F/G, Method 507.4; 48 hour, 95% RH 40-65C with humidity option Altitude: MIL-STD-810F/G, Method 500.4; 12,500ft operation with 40,000ft transport Vibration: MIL-STD-810F/G, Method 514.6 Procedure I; 4.43 GRMS, 5-20000Hzz, 60min/axis with solid state drives Shock: MIL-STD-810F/G, Method 516.6, Procedures I/V; 20g, 11msec functional shock; 40g 11msec crash hazard shock Other: MIL-STD-461F/G CE102 & RE102; Meets using CORESYSTEMS optional 461 EMI Kit
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 (13.6 - 15.8 kg)
CPU:	Intel® CPU architecture options from Intel embedded long-life roadmap; Vapor chamber technology heatsinks; Intel E5-2600v4 Series CPUs; Dual 10-Core or dual 12-Core CPU options
Expansion Slots:	Three (3) full-height, 3/4 length slots; multiple PCIe slot combinations are available
External Bays:	Option 1- (std) Four (4) removable hot swap SATA or SAS 2.5 or 3.5 HDDs; Option 2- Four (4) 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:	80mm high speed, high volume fans (3 center mount); Thermostatically controlled via motherboard
Power Supply Options:	Option 1- (std) 120/240VAC w/PFC 2U redundant power supply; Option 2- 120/240VAC w/PFC 2U power supply; Option 3- 24VDC 2U power supply; Option 4- 24VDC 2U redundant power supply
System Board:	X9DR3-F, Socket 2011, 512GB ECC Reg. DDR3, PS/2 KB/M, DB9 Serial, VGA, 4-USB, 2-GBLAN, On-board SAS, IPMI w/ KVM over IP

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