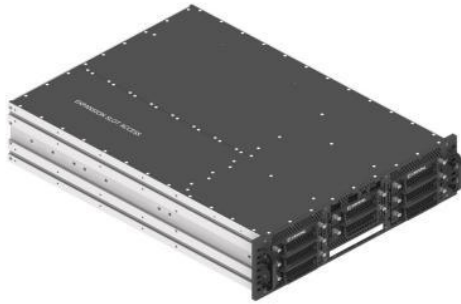




CRS378R24 Rugged 3U Server



Rugged Series Structural Features

All Aluminum Construction

- 6061T-651 strain hardened structural aircraft aluminum
- 0.187 to 0.500" thk. Aluminum cross-sections, machined
- MIL-DTL-81706, Type II, Class 3, clear chem film protection

Built to Survive Shock and Vibe

- Multiple attachment points on motherboard and CPU heatsink stabilize PWB
- All fasteners and connectors retained with locking mechanisms
- Cabling dressed and secured to prevent chafing
- Removable HDD, shock isolated



Key Features

- Rugged 3U in a 19" Rack or transit case EIA 3U form factor, 24" Depth
- Light weight, 50-56 lbs depending on content
- Socket 1366 (Nehalem-EP) CPU available
- Seven full height expansion slots, type is motherboard dependent, all 3/4 length
- Extended temperature range, -15C to +55C, -40C optional SSHDD; +71°C option with higher temp CPU and SSHDD
- Configuration Management available upon request, designed for long-life thru Intel® roadmap partner
- Front mounted, fixed, Delrin glides or Jonathan rails

Superior Cooling and EMI Performance

Cooling

- High speed, high volume fans offer maximum airflow and are designed for long life
- Custom cabling reduces internal pressure drop to increase airflow
- Conduction and convection cooling techniques optimized for each CPU design

EMI/EMC

- Internal compartments segregated to isolate EMI emissions
- Finish applied maintains superior EMI/EMC characteristics throughout life of the unit.
- Superior grounding paths

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Military Standards (*designed to or tested to)

Operational Temperature, MIL-STD-810F, Method 501.5, Procedure I/II	-15°C to +55°C, +71°C option with higher temp CPU -40°C with solid state drive
Storage, MIL-STD-810F, Method 501.5, Procedure I/II	-55°C to 85°C
Humidity, MIL-STD-810F, Method 507.4	48 Hour, 95% RH 40-65C— w/humidity kit
Altitude, MIL-STD-810F, Method 500.4	12,500ft operation, 40,000ft transport
Vibration, MIL-STD-810F, Method 514.5, Procedure I	4.43 G _{RMS} , 5-500Hz, 75 min/axis
MIL-S-901D, Grade B, Class 2, Type B	Grade A with solid state drives + vibe kits

Mechanical (3U)

Height	5.25" (13.34cm)
Width	17.75" (45.1cm)
Depth	24" (61 cm)
Weight	50-56 lbs (28.1-31 kg)

CPU

Intel® CPU Architecture options from Intel embedded long-life roadmap	Socket 1366 (Nehalem-EP & Westmere-EX) dual Dual Core ,dual Quad Core, or dual Hexa Core options
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Expansion Slots (7)

Option 1	Seven (7) full height slots; Configurations are motherboard dependent
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External Bays (8)

Option 1 (std)	Eight (8) removable SATA or SAS 2.5" or 3.5" HDD
Option 2	Two (2) drivepacks and two (2) removable SATA or SAS 2.5" or 3.5" HDD
Option 3 (can be combined with HDD option)	One (1) CD/DVD (RW) or Blu-ray

Cooling

Option 1 (std)	High speed, high volume fans (5 + 2 PS)
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Mounting Options

Option 1(std)	Mounted on Delrin glides
Option 2	Fixed mount, front and rear
Option 3	Jonathan rails

Power Supply Options

Option 1 (std)	120/240VAC w/PFC 600W
Option 2	120/240VAC 1+1 W/PFC 600W
Option 3	550W DC

System Board

Option 1	X8DTL-3F, Socket 1366, 2-96 GB ECC Reg. DDR3, PS/2 KB/M, DB9 Serial, VGA, 2-USB, 2-GBLAN, On-board SAS, IPMI w/ KVM over IP
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