



Dell MD1400 and MD1420 for Telecom Carrier Grade

As a telecommunications Original Equipment Manufacturer (OEM), you've told us you need affordable performance, improved energy efficiency, and accelerated time-to-market to maximize ROI. With the Carrier Grade Dell Storage MD1400/MD1420 for Telecom, you get all that plus peace of mind with our Tier 1 quality and reliability.

Telecom server solution

NEBS compliance is an important requirement in your environment. As a recognized global leader in enterprise platforms, Dell OEM Solutions offers NEBS Level-3 and ETSI compliant Dell Storage Carrier Grade arrays. The MD1400/1420 models are designed to scale capacity behind Dell's 13th generation of PowerEdge servers, without busting your storage budget.

Dell Carrier Grade Storage for OEM offer:

- Open standard systems.
 - Improved compatibility based on industry-leading Dell products
 - Rapidly scalable and easily expandable
- Industry standards Solutions.
 - NEBS Level 3 and ETSI certified
 - Designed for extreme conditions such as high humidity, earthquakes and dust
- Global regulatory support and availability

Service and support

Bring your game-changing innovations to market fast with our services, including design, manufacture, fulfillment and global support. We'll help you refine a product or design new products with the right services, so you can focus on your IP. Choose from services that can help you:

- Conduct applications testing on our hardware.
- Integrate hardware, image, applications, peripheral and documents as your systems are built.
- Consolidate, stage, deliver and support your orders globally.
- Provide your customers with the support they need, anything, anywhere with more than 30,000 Dell employees in tech support, parts and field services in more than 100 countries.

Additional Features

- Accelerated performance enables you to operate fast and efficiently.
- Increased productivity helps you to maintain focus on your intellectual property (IP).
- Industry-leading support gives you the agility to manage your clients more efficiently

Dell Storage MD1400/MD1420 Carrier Grade

- NEBS Level 3 and ETSI compliant
- Tier 1 class hardware
- Comprehensive, global service and support



Feature	MD1400	MD1420
Drives	Up to 12 hot-pluggable 3.5" or 2.5" drives (2.5" available with adapter)	Up to 24 hot-pluggable 2.5" drives
Drive performance and capacities	3.5" SAS 6Gb HDD (7.2K): 1TB, 2TB, 4TB 2.5" SAS 6Gb HDD (7.2K): 500GB, 1TB 2.5" SAS 6Gb HDD (10K): 300GB, 600GB, 1.2TB 2.5" SAS 6Gb HDD (15K): 300GB 2.5" SAS 12Gb SSD: 200GB, 400GB, 800GB (WI); 400GB, 800GB, 1.6TB (MU); 800GB, 1.6TB (RI)	2.5" SAS 6Gb HDD (7.2K): 500GB, 1TB 2.5" SAS 6Gb HDD (10K): 300GB, 600GB, 1.2TB 2.5" SAS 6Gb HDD (15K): 300GB 2.5" SAS 12Gb SSD: 200GB, 400GB, 800GB (WI); 400GB, 800GB, 1.6TB (MU); 800GB, 1.6TB (RI)
Maximum capacity per enclosure	Up to 48TB when using 12 x 4TB 7.2K RPM 3.5" SAS HDDs	Up to 28.8TB when using 24 x 1.2TB 7.2K RPM SAS HDDs
Expansion capabilities	PERC H830 HBA enables expansion to 8 enclosures, PCIe 3.0, 12Gbps SAS, dual-port, 4 ports per enclosure	
Host connectivity		
Unified mode	Unified mode (single path) for daisy chaining of up to 8 enclosures per PERC H830 (4 enclosures per port, single path) Unified mode (recommended redundant path) for daisy chaining up to 4 enclosures per PERC H830 (4 enclosures connected to both ports via redundant path cabling)	
Enclosure management modules (EMM) and RAID levels		
EMM	2 EMM provide redundant enclosure management capability	
RAID levels	0, 1, 5, 6, 10, 50 and 60	
Back-panel connectors per EMM		
Connectivity	4 Mini-SAS HD connector for connection to the host or expansion	
Service management	USB Mini-B connector (for factory use only)	
Power supplies per PSU		
Wattage – AC and DC power	AC – 600W; DC – 700W	
Host heat dissipation	AC – 2047 BTU/hr; DC – 2388 BTU/hr	
Input voltage range	100-240 VAC, auto-sensing; 48 V DC	
Frequency range	50/60 Hz	
Amperage	8.6 A at 100 V, 4.3 A at 240 V	
Available hard drive power (per slot)		
Supported continuous consumption	Up to 1.2 A at +5V Up to 0.5 A at +12V	
Physical		
Rack support	Dell ReadyRails™ II static rails for tool-less mounting in 4-post racks with square or unthreaded round holes or tooled mounting in 4-post threaded-hole racks	
Height x width x depth	8.7 cm (3.39") x 48.2 cm (18.8") x 54.1 cm (21.1")	
Weight	28.59 kg (63.03 lb) (maximum configuration) 9.0 kg (19.8 lb) (empty)	24.2 kg (53.35 lb) (maximum configuration) 8.8 kg (19.4 lb) (empty)
Environmental		
Temperature	Operating: 5° to 40°C (41° to 104°F) with maximum temperature gradation of 10°C per hour Storage: -40° to 65°C (-40° to 149°F) with temperature gradation of 20°C per hour	
Relative humidity	Operating: 8% to 85% (non-condensing) with maximum humidity gradation of 10% per hour Storage: 5% to 95% (non-condensing)	
Altitude	Operating: -16 to 3048 m (-50 to 10,000 ft) Storage: -16 to 10,600 m (-50 to 35,000 ft)	

¹GB means 1 billion bytes and TB equals 1 trillion bytes; actual capacity varies with preloaded material and operating environment and will be less.

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