



Dell™ PowerVault™ MD3600i t Series 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 PowerVault MD3600i/MD3620i t, you get all that plus peace of mind with our Tier 1 quality and reliability.

Telecom storage 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-certified PowerVault™ Carrier Grade arrays. The Dell PowerVault MD3600i/MD3620i t 10G Ethernet iSCSI SAN solution is ideal for entry-level storage consolidation in virtualized environments that require high availability and high performance. Designed for flexibility, the MD3600i t arrays support a range of drive types, enclosures and RAID levels all within a single array.

Dell's PowerVault Carrier Grade Storage for OEM offers:

- 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.

PowerVault MD3600/MD3620f t Carrier Grade

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

Feature	PowerVault MD3600i t Series Compliant Components
Hard Drive Bays	MD3600i t – Up to twelve (12) 3.5 inch SAS, Near-line SAS and SSD drives MD3620i t – Up to twenty-four (24) 2.5 inch SAS, Near-line SAS and SSD drives
3.5" Drive options ¹	15,000 RPM SAS drives available in 600GB 7,200 RPM Near-line SAS drives available in 1TB, 2TB and 3TB
2.5" Drive options ¹	15,000 RPM SAS drives available in 300GB 10,000 RPM SAS drives available in 600GB and 900GB
Expansion Capabilities	Expand up to 120 total drives using MD1200 and/or MD1220 expansion enclosures Expand up to 192 total drives using MD1200 and/or MD1220 expansion enclosures and Premium Feature Key
Host Connectivity	Dual Controller Model: 10Gb iSCSI interface, supporting up to 8 servers directly connected or up to 64 servers when configured with Ethernet switches
Storage Controllers ¹	<ul style="list-style-type: none"> Each controller contains 2GB of battery-backed cache Dual controllers operate in an active-active environment mirroring each other's cache Cache protection is provided via flash memory for permanent data protection
RAID Levels	<ul style="list-style-type: none"> Support for RAID levels 0, 1, 10, 5, 6 Up to 120 physical disks per group in RAID 0, 1, 10 Up to 192 physical disks per group in RAID 0, 1, 10 with Premium Feature Key Up to 30 physical disks per group in RAID 5, 6 Up to 256 virtual disks
Array Management	<ul style="list-style-type: none"> 2nd generation multi-protocol Modular Disk Storage Manager, Java based user interface Multi-path software provides failover management of redundant data paths between the server and storage array
Optional Premium Features	Snapshots: Up to 8 snapshots per virtual disk and 128 per system Snapshots Plus Virtual Disk Copy: Up to 8 simultaneous virtual disk copies High Performance Tier firmware upgrade: Increases array IO performance Remote Replication: Provides business continuity and disaster recovery
Back-Panel Connectors (per controller)	Power Supply: Four 8GB/s SFP ports per controller Expansion Connectivity: One x4 6Gb SAS (8088 mini connector) Remote Management: One RJ-45 1Gb Ethernet Service Management: One PS/2 Serial
LED Indicators	Front Panel: 1 two-color LED indicator for system status, 1 single-color LED indicator for power, 1 LED unused in this system Hard Drive Carrier: 1 single-color activity LED, 1 two-color LED status indicator per drive Storage Controller: 1 one-color LED power indicator, 1 one-color LED controller fault indicator, 1 one-color LED controller identifier, 1 one-color LED cache activity indicator, 1 one-color LED battery fault indicator Power Supply/Cooling fan Module: 3 one-color LED status for AC status, DC status and power supply cooling fan fault
Power Supplies (per supply)	Wattage: 700W peak output Max Heat Dissipation: 2388 BTU/hr Input Voltage: 38V to 72V DC Frequency Range: N/A Max Input Current: 60A at 38V
Hard drive power (per slot)	Supported continuous consumption 3.5" drive: 25 Watts 2.5" drive: 12 Watts
Physical	Height x Width x Depth MD3600i t: 8.68cm (3.42") x 44.63cm (17.57") x 56.1cm (22.09") MD3620i t: 8.68cm (3.42") x 44.63cm (17.57") x 50.8 (20") Weight MD3600i t: 29.3kg (64.59 lbs.) (maximum configuration) MD3620i t: 24.2kg (53.35 lbs.) (maximum configuration)
Environmental	Temperature: 10° to 35°C (50° to 95°F) with a max temp gradation of 10°C per hour (operating) Relative Humidity: 20% to 80% (non-condensing) with a max humidity gradation of 10% per hour (operating) Altitude: -16 to 3048m (-50 to 10,000 ft) (operating) Note For altitudes above 2950 feet, the max operating temperature is de-rated 1°F/550ft.

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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