



Dell Storage MD1280

Expand server capacity with the Dell Storage MD1280 dense enclosure to help maintain compute power and performance, while adding storage capacity to Dell PowerEdge servers.

Ultra-dense storage

Storage requirements continue to grow - the closer that storage can be to the server, the better performance the server can maintain. Take advantage of the space savings of a 5U form factor that can expand to the extreme density of up to 168 hard drives using just 10U of rack space. The modular design of the MD1280 allows you to start with just 28 drives and with progressive scalability, expand when and how to continually meet your business needs.

The high density of the MD1280 holds up to 84 hard drives in a 5U standard rack mount chassis, ensuring the best drive density per rack unit at Dell,¹ while reducing the storage footprint in a data center. Putting so many drives into a smaller footprint minimizes the amount of space used in the data center, which will in turn drive additional savings on power and cooling expenses to the bottom line.

Competitive price

The MD1280 is Dell's ultra-dense storage enclosure. Designed to add capacity to the PowerEdge server product line, the MD1280 provides 40% more capacity than previous generations of dense enclosure options.¹ The MD1280's capacity can be tailored to meet the most stringent performance requirements with the option to select from a variety of drive speeds to optimize server performance, ensuring an affordable storage solution for PowerEdge servers.

Due to the modular design of the MD expansion series, adding capacity allows you to grow as your data requirements grow. Dell's enterprise hard drives ensure

that added capacity is affordable, maintaining the ability to scale without losing sight of the need for competitive pricing. Begin with as few as 28 hard drives. Scale in groups of 14 drives, until you reach the maximum capacity of the compact 5U chassis with the high density tray for optimal space saving.

Operating as a JBOD (just a box of disks) the MD1280 scales to a maximum of 168 drives with two enclosures. Dell PowerEdge servers can simply and efficiently add storage capacity as needed, taking advantage of Dell's competitive price per gigabyte.

Tailored performance

Maintaining the compute power of servers is important, and the MD1280 can help ensure that performance is optimized while adding storage capacity. The MD1280 can be tailored to meet performance requirements by choosing the size of disks needed within the enclosure. Because it is direct connect SAS, the data remains close to the compute power of a PowerEdge server keeping performance at its peak.

- Two 42-drive drawers offer extreme density in minimal space
- Drawer and drives stay active when the drawer is open
- Hot-pluggable hard drives, fans, EMMs, PSUs and drawer expander assemblies
- 4TB, 6TB or 8TB NL-SAS hard drives

¹ Based on comparison with the Dell Storage MD3060e dense enclosure

² Capacity based on 2 MD1280 enclosures and 168 bays with 8TB HDDs

Features	Dell Storage MD1280
Drive count per chassis	Up to 84 hot-pluggable 3.5" drive bays
Drive performance and capacities	3.5" NL-SAS 6Gb HDD (7.2K): 4TB, 6TB 3.5" NL-SAS 4kn or 512e 6Gb HDD (7.2K): 6TB 3.5" NL-SAS 512e 6Gb HDD (7.2K): 8TB
Maximum capacity per enclosure	Up to 672TB when using 84 x 8TB NL-SAS 3.5" HDDs
Expansion capabilities	LSI 9207-8e SAS HBA
Enclosure Management Modules (EMM)	2 EMM provide redundant enclosure management capability
Connectivity per EMM	3 mini-SAS connectors for connection to the host or expansion
Service management	3.5 mm Stereo Plug (for factory use only)
Wattage (AC only, no DC option)	2800W
Host heat dissipation	9554 BTU/hr
Input voltage range	200-240 VAC
Frequency range	50/60 Hz
Amperage	8.6 - 4.3A (x2)
Height x width x depth	22.230 cm (8.8") x 48.260 cm (19") x 91.44 cm (36")
Weight	130.1 kg (287 lb) (maximum configuration) 62.1 kg (137 lb) (empty)
Temperature	Operating: 10° to 35°C (50° to 95°F) with maximum temperature gradation of 20°C per hour Non-operating: -40° to 65°C (-40° to 149°F) at a maximum altitude of 12,000 m (39,370 ft)
Relative Humidity	Operating: 10% to 80% (non-condensing) with 29°C (82.4°F) maximum dewpoint Non-operating: 5% to 95% (non-condensing) with 33°C (91°F) maximum dewpoint
Altitude	Operating: -16 to 3048 m (-50 to 10,000 ft) Storage: -16 to 10,600 m (-50 to 35,000 ft)
Inlet type	0 to 3,048 m (0 to 10,000 ft) NOTE: Up to 35°C maximum temperature is reduced by 1°C/300 m (1°F/547 ft) above 950 m (3,117 ft)

OEM-ready version available

From bezel to BIOS to packaging, your storage arrays can look and feel as if they were designed and built by you. For more information, visit Dell.com/OEM.

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