

# PowerVault MD Series

Purpose-built and optimized for PowerEdge direct-attached storage (DAS)

PowerVault MD2412, MD2424 and MD2460 models are purpose-built and optimized for PowerEdge DAS configurations. Directly attaching PowerVault MD to PowerEdge previous and new server generations, simplifies the challenges of server capacity expansion ensuring applications get high-speed access to their data – without compromise.



**MD2412**  
12 drive / 2U  
Low-cost dense storage



**MD2424**  
24 drive / 2U  
Performance-optimized storage



**MD2460**  
60 drive / 4U  
High-density storage

## PowerVault MD Series

	MD2412	MD2424	MD2460
<b>Rack size</b>	2U	2U	4U
<b>Drive bays</b>	12 x 3.5" (14G/15G/16G)	24 x 2.5" (14G/15G/16G)	60 x 3.5" (Chassis specific)
<b>Max. drive count</b> for 14G/15G PE servers	Up to 96 for HBA355e Up to 48 for H840 PERC	Up to 96 for HBA355e Up to 96 for H840 PERC	Up to 120 for HBA355e Up to 120 for H840 PERC
<b>Max. drive count</b> for 16G PE servers	Up to 96 for HBA355e	Up to 96 for HBA355e	Up to 120 for HBA355e
<b>PERC support<sup>1</sup></b>	Yes	Yes	Yes
<b>Max. enclosures</b> for 14G/15G PE servers	8 (with HBA355e) 4 (with H840 PERC)	4 (with HBA355e) 4 (with H840 PERC)	2 (with HBA355e) 2 (with H840 PERC)
<b>Max. enclosures</b> for 16G PE servers	8 (with HBA355e)	4 (with HBA355e)	2 (with HBA355e)
<b>Max capacity<sup>2</sup></b>	1.92PB (20TB HDD)	230.40TB (2.4TB 10K) 737.28TB (7.68TB SSD)	2.40PB (20TB HDD)
<b>Storage media</b>	<u>7.2K SAS/FIPS 3.5" drives</u> – 20TB; 16TB; 12TB; 8TB; 4TB – FIPS: 8TB	<u>10K SAS/FIPS 2.5" drives</u> – 2.4TB; 1.2TB; 600GB – FIPS: 2.4TB, 1.2TB  <u>SAS SSD/FIPS 2.5" (mixed use)</u> – 1.6TB; 800GB – FIPS: 3.84TB; 1.92TB, 960GB  <u>SAS SSD/FIPS 2.5" (Read Intensive)</u> – 7.68TB; 3.84TB; 1.92TB – FIPS: 7.68TB; 3.84TB; 1.92TB	<u>7.2K SAS/FIPS 3.5" drives</u> – 20TB; 16TB; 12TB; 8TB; 4TB – FIPS: 8TB

<b>Host interface</b> (autosensing)	12Gb/24Gb SAS	12Gb/24Gb SAS	12Gb/24Gb SAS
<b>I/O &amp; Ports</b>	2x 4-lane 24Gbps SAS host connect per EMM (MD2412, MD2424) 4x 4-lane 24Gbps SAS host connect per EMM (MD2460) 1x USB-C debug ports per EMM		
<b>Expansion protocol</b>	24Gb SAS4	24Gb SAS4 <sup>3</sup>	24Gb SAS4
<b>Supported</b>	All-Flash, Hybrid Flash (10K HDD only (MD2424); 7.2K HDD only (MD2412, MD2460))		
<b>Management</b>	Enclosure Management Modules (EMM) 2 HA EMM per enclosure provide redundant enclosure management capability with iDRAC or SHMCLI		
<b>PowerEdge servers</b> <sup>4</sup>	14G/15G servers; R760, R660, R7625, R6625, R7615, R6615 servers		

## Physical Base System

	MD2412	MD2424	MD2460
<b>Base system height</b>	86.8 mm 3.5 inches	88.9 mm 3.5 inches	174.3 mm 6.86 inches
<b>Base system width</b>	444.0 mm 19 inches	444.0 mm 19 inches	423 mm 16.65 inches
<b>Base system depth</b>	545 mm 21.5 inches	495 mm 19.5 inches	875 mm 34.45 inches
<b>Weight (with drives)</b>	25.58 kg 56.39 lbs	21.76 kg 47.99 lbs	90.70 kg 199.96 lbs
<b>Weight (without drives)</b>	15.98 kg 35.23 lbs	16.0 kg 35.27 lbs	47.18 kg 104.03 lbs

## System Power

<b>Wattage</b>	MD2412: 800W MD2424: 800W MD2460: 1500W
<b>Voltage</b>	MD2412: 100-127/200-240 VAC; 240 VDC (China only) MD2424: 100-127/200-240 VAC; 240 VDC (China only) MD2460: 200-240 VAC; 240 VDC (China only)
<b>Frequency</b>	50/60 Hz

## Environmental Operating Conditions

Operating temperature	0°C to 40°C (32°F to 104°F)
Operating temperature (ASHRAE A3)	5°C to 40°C (41°F to 104°F)
Non-operating temperature	-40°C to +65°C (-40°F to +149°F)
Operating humidity ranges (non-condensing)	8% to 85% non-condensing
Non-operating humidity (non-condensing)	10% to 95% non-condensing
Operating max. temperature gradient	20°C per hour

## Service and Warranty

Dell ProSupport Enterprise Suite and Dell ProDeploy Enterprise Suite. Optional ProSupport Plus is available offering proactive and preventative.

## OEM-ready

From bezel to BIOS to packaging, your JBOD enclosures can look and feel as if they were designed and built by you. For more information, visit [www.Dell.com/OEM](http://www.Dell.com/OEM)

- (1) PERC support for 16G servers is post-launch
- (2) Capacities supported at launch.
- (3) MD2424 supports 24Gb SAS4 internally as well as for 24Gb SSDs
- (4) Additional new generation servers will be available post-launch



**Flexible. Scalable. Server-ready.**



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