

PowerVault MD Series

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

PowerVault MD2412, MD2424 and MD2460 models are purpose-built and optimized for PowerEdge DAS configurations. Directly attaching PowerVault MD models, 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
Rack size	2U	2U	4U
Drive bays	12 x 3.5" (14G/15G/16G)	24 x 2.5" (14G/15G/16G)	60 x 3.5" (Chassis specific)
Max. drive count²	Up to 96 for HBA355e Up to 48 for H840 PERC ¹ Up to 96 for H965e PERC ¹	Up to 96 for HBA355e Up to 96 for H840 PERC ¹ Up to 192 for H965e PERC ¹	Up to 120 for HBA355e Up to 120 for H840 PERC ¹ Up to 240 for H965e PERC ¹
PERC support¹	Yes	Yes	Yes
Max. enclosures for 14G/15G PE servers²	8 (with HBA355e) 4 (with H840 PERC)	4 (with HBA355e) 4 (with H840 PERC)	2 (with HBA355e) 2 (with H840 PERC)
Max. enclosures for 16G PE servers²	8 (with HBA355e)	4 (with HBA355e)	2 (with HBA355e)
Max capacity³ (20TB HDDs)	1.92PB	230.40TB (2.4TB 10K) 141.12TB (7.68TB SSD)	2.40PB
Storage media	<u>7.2K SAS/FIPS 3.5" drives</u> – 20TB; 16TB; 12TB; 8TB; 4TB – FIPS: 16TB; 8TB	<u>10K SAS/FIPS 2.5" drives</u> – 2.4TB; 1.2TB; 600GB – FIPS: 2.4TB <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: 16TB; 8TB

Host interface (With autosensing)	12Gb/24Gb SAS	12Gb/24Gb SAS	12Gb/24Gb SAS
I/O & Ports	2x HA Management Modules (EMM) per enclosure – 2x 4-lane 24Gbps SAS host connect per EMM (MD2413, MD2424) – 4x 4-lane 24Gbps SAS host connect per EMM (MD2460) – 1x USB-C debug ports per EMM		
Expansion protocol	24Gb SAS4	24Gb SAS4 ⁴	24Gb SAS4
Supported	All-Flash, Hybrid Flash, 10K HDD Only (MD2424); 7.2K HDD only (MD2412, MD2460)		
Management	SHMCLI / iDRAC / PERCCLI		
PowerEdge servers	14G/15G servers; R760, R660, R7625, R6625, R7615, R6615 servers ⁵		

Physical Base System

	MD2412	MD2424	MD2460
Base system height	86.8 cm 3.5 inches	88.9 cm 3.5 inches	174.3 mm 6.86 inches
Base system width	444.0 mm 19 inches	482.6 mm 19 inches	423 mm 16.65 inches
Base system depth	545 mm 21.5 inches	495 mm 19.5 inches	875 mm 34.45 inches
Weight (with all drives installed)	25.58 kg 56.39 lbs	21.76 kg 47.99 lbs	90.70 kg 199.96 lbs
Weight (without drives)	15.98 kg 35.23 lbs	16.0 kg 35.27 lbs	47.18 kg 104.03 lbs

System Power

Output Power/wattage rating	MD2412: 800W MD2424: 800W MD2460: 1500W	
Voltage	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)	
Frequency	50/60 Hz	

Environmental Operating Conditions

Operating temperature	0°C to 40°C (32°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

- (1) PERC for 16G will be post-launch
- (2) Refer to MD24xx Series Support Matrix for specific server and controller maximums supported at launch
- (3) Capacities are at launch.
- (4) MD2424 supports 24Gb SAS4 internally as well as for 24Gb SSDs
- (5) Additional new generation servers will be available post-launch



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