DELL Technologies

SPECIFICATION SHEET

HAUMOUN IT PIONEERS

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**
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 count for 14G/15G PE servers **Max. drive count** for 16G PE servers	Up to 96 for HBA355e Up to 48 for H840 PERC Up to 96 for HBA355e	Up to 96 for HBA355e Up to 96 for H840 PERC Up to 96 for HBA355e	Up to 120 for HBA355e Up to 120 for H840 PERC Up to 120 for HBA355e
PERC support[1]	Yes	Yes	Yes
Max. enclosures for 14G/15G PE servers **Max. enclosures** for 16G PE servers	8 (with HBA355e) 4 (with H840 PERC) 8 (with HBA355e)	4 (with HBA355e) 4 (with H840 PERC) 4 (with HBA355e)	2 (with HBA355e) 2 (with H840 PERC) 2 (with HBA355e)
Max capacity[2]	1.92PB (20TB HDD)	230.40TB (2.4TB 10K) 737.28TB (7.68TB SSD)	2.40PB (20TB HDD)
Storage media	7.2K SAS/FIPS 3.5” drives – 20TB; 16TB; 12TB; 8TB; 4TB – FIPS: 8TB	10K SAS/FIPS 2.5” drives – 2.4TB; 1.2TB; 600GB – FIPS: 2.4TB, 1.2TB SAS SSD/FIPS 2.5” (mixed use) – 1.6TB; 800GB – FIPS: 3.84TB; 1.92TB, 960GB SAS SSD/FIPS 2.5” (Read Intensive) – 7.68TB; 3.84TB; 1.92TB – FIPS: 7.68TB; 3.84TB; 1.92TB	7.2K SAS/FIPS 3.5” drives – 20TB; 16TB; 12TB; 8TB; 4TB – FIPS: 8TB

Host interface (autosensing)	12Gb/24Gb SAS	12Gb/24Gb SAS	12Gb/24Gb SAS
I/O & Ports	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		
Expansion protocol	24Gb SAS4	24Gb SAS4[3]	24Gb SAS4
Supported	All-Flash, Hybrid Flash (10K HDD only (MD2424); 7.2K HDD only (MD2412, MD2460)		
Management	Enclosure Management Modules (EMM) 2 HA EMM per enclosure provide redundant enclosure management capability with iDRAC or SHMCLI		
PowerEdge servers[4]	14G/15G servers; R760, R660, R7625, R6625, R7615, R6615 servers		

Physical Base System

	MD2412	MD2424	MD2460
Base system height	86.8 mm 3.4 inches	86.8 mm 3.4 inches	174.3 mm 6.86 inches
Base system width	444.0 mm 17.5 inches	444.0 mm 17.5 inches	423 mm 16.65 inches
Base system depth	545 mm 21.5 inches	497 mm 19.5 inches	875 mm 34.45 inches
Weight (with drives)	25.58 kg 56.39 lbs	21.76 kg 49. 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

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

Service and Warranty

Dell ProSupport Enterprise Suite and Dell ProDeploy Enterprise Suite. Optional ProSupport Plus is available offering pro-active 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 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.

Learn more about Dell PowerVault Products

Contact a Dell Technologies Expert