

DELL™ POWERSVULT™ MD1120



Dell expands its family of premier storage products with the PowerVault™ MD1120. Designed to provide superior performance in a rack-dense chassis, the MD1120 is the perfect solution for your mission-critical applications.

STORAGE WITH ROOM TO GROW

More and more organizations are using data-intensive tools, suffering from slow or small e-mail boxes, and adding ever-increasing numbers of drives to handle their storage needs. The Dell PowerVault MD1120 can help. It offers exceptional capacity and performance while using 2.5" drives that consume less power and take up less space than 3.5" drives.

The MD1120 is Dell's first enclosure to offer small form factor (SFF) 2.5" Serial Attached SCSI (SAS) disk drives. When connected to Dell's PowerEdge™ RAID Controller (PERC), the MD1120 can scale up to six enclosures, housing up to 144 drives.

HIGH-END PERFORMANCE

Hard drive performance is essential for your data-hungry, I/O-intensive applications. The PowerVault MD1120 offers drives connected to a fast, three gigabit-per-second SAS interface. This is the perfect combination for high-end applications such as e-mail, databases, and online transaction processing.

MAXIMUM EFFICIENCY

The SFF drives also help manage power, heat, and space usage in your data center, consuming up to 50% less power and 70% less space than 3.5" drives. Additionally, the PowerVault MD1120 uses high-efficiency power supplies and variable speed, while temperature controlled fans to help minimize power consumption.

SIMPLIFIED MANAGEMENT

The PowerVault MD1120 is engineered to help simplify deployment and management. It can share common disk drives with Dell PowerEdge Servers, helping to lower the cost of stocking spare parts. You only need to keep one type of drive on hand, and rest assured that a drive failure can be addressed quickly and easily.

PROACTIVE SERVICES

Dell ProSupport can help streamline the installation and maintenance of your MD1120. Dell can provide services ranging from storage consulting and consolidation to backup and recovery to comprehensive storage training and certification.

DELL™ POWERVAULT™ MD1120 SPECIFICATIONS	
Features	Description
Drives and Capacity	
Hard Disk Drives	Up to 24 2.5" SAS hot-pluggable hard disk drives
Drive Performance & Capacities	15,000 RPM SAS drives available in 36GB and 73GB sizes 10,000 RPM SAS drives available in 73GB and 146GB sizes
Minimum Capacity (per enclosure)	72GB using two (2) 36GB 15K SAS drives
Maximum Capacity (per enclosure)	3.5TB using twenty-four (24) 146GB 10K SAS disk drives
Maximum Capacity (per RAID controller)	21TB using one hundred forty-four (144) 146GB 10K SAS disk drives, 3 enclosures per RAID port (dual-ported PERC 6/E)
Host Connectivity	
Unified Mode	Direct connectivity to all 24 disk drives per enclosure and supports daisy chaining up to 3 enclosures
Split Mode - Dual Host Access	Direct connectivity for one host to drives 0 to 11, and separate connectivity to drives 12 to 23
Enclosure Management Modules & RAID Levels	
Enclosure Management Modules (EMMs)	One or two hot-pluggable management modules
RAID Levels	PERC 6/E; Supports RAID levels 0, 1, 5, 6, 10, 50, 60; Up to 30 physical disks per group; up to 64 virtual disks per controller
Back-Panel Connectors (per EMM)	
Host Connectivity	One x4 3GB SAS (SFF 8470)
Expansion Connectivity	One x4 3GB SAS (SFF 8470)
Service Management	One 6-pin UART mini-DIN connector
LED Indicators	
Front Panel	One two-color LED indicator for system status; two single-color LED indicators for power and split mode
Hard Drive Carrier	One single-color activity LED; one two-color LED status indicator per drive
EMM	Three two-color LED status indicators: one for each of the EMM SAS ports and one for the EMM status
Power Supply / Cooling Fan Module	Three LED status indicators for power supply status, power/supply/fan fault, and AC status
Power Supplies (per supply)	
Wattage	485W (maximum continuous) 604W (peak)
Heat Dissipation	200W
Voltage	100-240V rated (actual 90-264V)
Frequency	47-63 Hz
Amperage	7.5A at 90V; 3.75A at 180V
Available Hard Drive Power (per slot)	
Supported Hard Drive Power Consumption	Up to 0.5A at +12V Up to 1.2A at +5V
Physical	
Height	8.60 cm (3.375")
Width	44.50 cm (17.5")
Depth	46.40 cm (18.25")
Weight (maximum configuration)	23.60 kg (52 lbs)
Environmental	
Temperature	Operating: 10° to 35°C (50° to 95°F); Storage: -40° to 65°C (-40° to 149°F)
Relative Humidity	Operating: 20% to 80% (non-condensing); Storage: 5% to 95% (non-condensing)
Altitude	Operating: -16 to 3,048 m (-50 to 10,000 ft); Storage: -16 to 10,600 m (-50 to 35,000 ft)
BTU (per hour)	1,430

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