

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

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