

# MESOS Storage M4600H

## Ultra-Dense 4U Disk Expansion Unit

As an ultra-dense, scalable, and cost-effective disk expansion unit, QCT MESOS M4600H features sixty hot-swappable 3.5"/2.5", SAS/SATA, HDDs/SSDs in a 4U enclosure and provides shared direct-attached-storage to as many as four QCT STRATOS servers simultaneously via four external mini-SAS ports. Major components including power supplies, fans, and SAS interface modules are redundant and hot-swappable with high availability. The design is optimized for the general-purpose needs of enterprise and service provider datacenters where the lowest operational cost-per-watt and smallest footprint are critical to achieving the desired economics.

### High Density

M4600H supports 60 hot-swappable 3.5"/2.5", SAS/SATA, HDDs/SSDs in a 4U enclosure, with up to 240TB of storage capacity.

### Flexibility

M4600H provides flexible and scalable disk configuration and combination. It supports 2.5" and/or 3.5", SAS and/or SATA, HDD and/or SSD, and different disk capacity options. Users can configure various disk options to address their unique needs and performance requirements.

### Cost-effectiveness

The MESOS M4600H is a cost-effective alternative for enterprises that want an ultra-dense storage solution but might not need up to 240 TB total storage on a single server. The unit can be shared with up to four servers via multi-lane Serial Attached SCSI (SAS) host interfaces, allowing these customers to enjoy the efficiency of ultra-dense storage across multiple physical servers.

### Reliability & High Availability

M4600H supports dual high-efficiency redundant power supplies and four hot-swappable fans, ensuring reliability and continuous availability in mission-critical datacenter environments. Hot-swappable redundant SAS interface modules provides dual data paths and ensure continuous operation. Ultra-high storage densities can present substantial mechanical engineering challenges from the sheer mass of rotating media. Interference from vibration caused by hard disk rotation is isolated in the MESOS M4600H to assure reliability and high performance across a range of loading and access scenarios.

### Serviceability & Manageability

With its innovative coverless, top access HDD design, M4600H significantly reduces service and maintenance complexity.

# Quanta®



# MESOS Storage M4600H

Form Factor ( L x W x H )	4U Chassis [ <b>W/O Cable management arms</b> ] 909.20mm x 447mm x 175.3mm 35.80" x 17.60" x 6.90" [ <b>W/ Cable management arms</b> ] 1103.1mm x 447mm x 175.3mm 43.43" x 17.60" x 6.90"
Weight	[ <b>W/O Hard drives</b> ] 80.11 lb. (36.34kg) [ <b>W/ (60) 3.5" Hard drives</b> ] 187.39 lb. (85 kg) [ <b>L10 Weight</b> ] 77.58 Kg
Controller Module	(2) Hot-swappable SAS Interface Modules (SIM) (4) Hot-swappable Internal SAS Interface Modules (ISIM)
External I/O Ports	(4) 6Gb/s mini-SAS ports per SIM <ul style="list-style-type: none"> <li>• (3) Host ports</li> <li>• (1) OUT port for cascading</li> </ul>
Storage	(60) 3.5" and 2.5" SASII and SATAIII hot-swappable HDDs with dual-port access. (SATA drive requires optional Active-Active MUX)
Management port	(1) Mini USB management port
Expansion Support	Scalable up to (120) HDDs in cascading (1) M4600H
Power Supply	(2) 1400W high efficiency redundant PSUs, 200-240VAC, 50/60Hz
Cooling Fans	(7+1) Rotors redundant fan modules per system <ul style="list-style-type: none"> <li>• (2) rotors in a fan module and (4) fan modules per system</li> </ul>
Firmware Management	SCSI Enclosure Service (SES-2)
LED Indicators	Front panel : <ul style="list-style-type: none"> <li>• System ID LED</li> <li>• HDD status LED</li> <li>• System status LED</li> <li>• Fan/PSU/SIM/ISIM status LED</li> </ul> HDD Active and ID/Status LED

	Internal SAS Interface Module Status LED SAS Interface Module Status LED
Operating Environment	Operating Temperature: 5°C to 40°C (41°F to 104°F) Humidity: 50% to 93% relative humidity Altitude: 33°C/ 3200m Shock : 31G @ 2ms Operational Vibration: 5 Hz ~ 350 Hz, 0.26 Grms



47709 Fremont Boulevard, Fremont CA 94538  
E-mail: sales@QuantaQCT.com  
Main: +1-510-270-6111 Fax: +1-510-270-6161 Support: +1-510-270-6216  
Toll Free: 1-855-QCT-MUST  
For more information, please visit <http://www.QuantaQCT.com>  
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