

CoreVault SAN Storage



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Dual-Controller Unified IP/FC SAN/NAS Storage System



PRODUCT OVERVIEW

QUANT CoreVault EXP24 is a 4U, 24-bay, 19-inch rack-mount disk expansion enclosure designed to extend storage capacity using SAS expansion (MiniSAS HD) connectivity. It supports 3.5-inch NL-SAS/SAS HDDs and 2.5-inch SAS SSDs and provides upstream + downstream SAS ports for flexible connectivity and cascading.

KEY HIGHLIGHTS

- 4U / 24-slot / 19-inch rack form factor
- Pluggable controller architecture
- 24 drive channels
- 4× MiniSAS HD (SFF-8644): 2× upstream x4 SAS + 2× downstream x4 SAS (supports cascading)
- 1+1 redundant, speed-adjustable high-efficiency fans
- 1+1 hot-swappable redundant power supply, wide AC input

DRIVE SUPPORT

Interface / Protocol: SAS

Supported Capacity:

- SAS HDD: 4TB to 22TB
- SAS SSD: 960GB / 1.92TB / 3.84TB / 7.68TB

Supported Drive Types:

- NL-SAS HDD (3.5-inch, 7200 RPM)
- SAS HDD (2.5-inch)
- SAS SSD

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PORTS & INDICATORS

Rear Interfaces / Items:

- USB debug port
- MiniSAS HD uplink interface + uplink status indicator
- MiniSAS HD downstream interface + downstream status indicator
- Controller operation status indicator + controller warning indicator
- AC power input + AC power indicator
- Ground screw + anti-static wrist grounding point

HASS DISK RELIABILITY TECHNOLOGY

- Proactive health checks to detect potential errors early.
- Real-time error tracking with analytics based on historical patterns.
- Online SMART monitoring with alerts and recommended actions (repair / warning)

TECHNICAL SPECIFICATIONS

Item	Specification
Form Factor	4U, 24-slot, 19-inch rack
Architecture	Pluggable controller architecture
Drive Bays	24 bays (supports 3.5" / 2.5")
Host Interface	4× SFF-8644 (2× upstream x4 SAS + 2× downstream x4 SAS)
Protocol	SAS
Cooling	Adaptive speed fans, 1+1 redundancy
Power Supply	AC 100–127V / 200–240V, 50/60Hz, 1+1 hot-swappable redundant PSU
Power Consumption	< 550W fully loaded with 24 drives

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TECHNICAL SPECIFICATIONS

Item	Specification
Operating Temperature	+5°C to +40°C
Operating Humidity	10% to 90%
Dimensions (H×W×D)	131 × 440 × 540 mm

ORDERING INFORMATION

Product Description	Remark
Quant CoreVault EXP24 disk expansion cabinet, can be configured with 24 3.5 /2.5-inch hard disks	Disk expansion cabinet cable
MiniSAS HD SFF - 8644 Cable 0.9m	Disk expansion cabinet cable
Enterprise-class SAS hard disk module (4000GB B)	3.5-inch disc, 7200 rpm
Enterprise-class SAS hard disk module (8000GB B)	3.5-inch disc, 7200 rpm
Enterprise-class SAS hard disk module (12 000GB B)	3.5-inch disc, 7200 rpm
Enterprise-class SAS hard disk module (1 4000GB B)	3.5-inch disc, 7200 rpm
Enterprise-class SAS hard disk module (16 000GB B)	3.5-inch disc, 7200 rpm
Enterprise-class SAS hard disk module (18 000GB B)	3.5-inch disc, 7200 rpm
Enterprise-class SAS hard disk module (20 000GB)	3.5-inch disc, 7200 rpm
Enterprise-class SAS hard disk module (22 000GB B)	3.5-inch disc, 7200 rpm
Enterprise-class SAS hard disk module (24 000GB B)	3.5-inch disc, 7200 rpm
Enterprise-class SAS hard disk module (960GB B)	2.5-inch disk, SAS SSD
Enterprise-class SAS hard disk module (1920GB B)	2.5-inch disk, SAS SSD
Enterprise-class SAS hard disk module (384 0G B)	2.5-inch disk, SAS SSD
Enterprise-class SAS hard disk module (768 0G B)	2.5-inch disk, SAS SSD

