StorageScaler 8460

World's Highest Density Enclosure to Drastically Lower TCO

The exponential growth of Big Data is putting a significant strain on IT infrastructures and budgets as organizations try to successfully ingest, store, process and distribute data. The StorageScaler 8460 (SS8460) ultra-high density disk drive enclosure, in conjunction with the SFA™12K storage platform family, drastically lowers the Total Cost of Ownership (TCO) for these organizations and delivers unprecedented levels of performance and scalability for organizations looking to solve their Big Data challenges.

DataDirect Networks' (DDN) fourth-generation high-density SS8460 drive enclosure can handle up to eighty-four drives (SATA, SAS, or SSD) in just 4U rack space, reducing data center sprawl by up to 40% as compared to even the highest density storage array offerings available in the market today. This gives customers the ability to store up to 5.04 PBs in a single datacenter rack*.

The SS8460 provides multiple, redundant 6Gb/s SAS data paths from host interfaces to drives, eliminating single points of failure and ensuring the highest levels of business continuity. It provides the ability to freely intermix and build tiers of SATA, SAS and SSD drives, even within a single enclosure, allowing administrators to align Big Data to the appropriate tier over time and lower their TCO.

With 240Gb/s of internal bandwidth, the SS8460 enables more throughput per unit of rack space and ensures unparalleled levels of performance consistency even when drives are rebuilding. This translates into a no compromise, flexible, tiered storage solution optimized for both application performance and data availability.

**StorageScaler 8460
Drastically Lower your TCO with the
World's Densest Enclosure**

HIGHLIGHTS

▸ World's densest disk enclosure with the ability to store 84 drives in just 4U of rack space

▸ Ability to store 5.04 PBs in a single datacenter rack*

▸ Enterprise level reliability, availability and serviceability

▸ Intermix SATA, SAS and SSD to build flexible tiers and optimize storage utilization

▸ 80 PLUS Gold Power Efficiency to minimize power consumption and lower TCO

* In a standard 42U data center rack with 6 TB Drives.

Specifications

Enclosure Form Factor	4U
	Conforms to EIA-310-D Specifications
Drive Support	• 6Gb/s SAS, SATA and SSD
	• Inter-Mix Drive Types and Capacities
Maximum Number of Drives	84
Number of SAS IO Modules	2
Number of SAS Ports per Module	5

System Availability/Redundancy

IO Modules	Dual-redundant and hot-swappable
Power and Cooling Modules	Dual-redundant and hot-swappable
Disk Drives	Redundant and hot-swappable

Notifications and Monitoring

Enclosure Management	SCSI Enclosure Services (SES)
LCD Display	Status, Power,Environmental, Monitoring
LED Indicators	Status, Power, Monitoring, Activity

Dimensions

Height mm (in)	4U 175.3 (6.9)
Width mm (in)	482 (19.0)
Depth w/o bezel (LCD) and cable management mm (in)	895.8 (35.2)
Depth with bezel (LCD) and cable management mm (in)	982 (38.7)
Weight without Drives kg (lbs)	49.28 (108.6)
Weight with 84 x 4TB SATA Drives kg (lbs)	107.6 (237.2)

Environmental and Power

Operational Altitude m (ft)	-61 to 3048 (-200 to 10,000)
Non-operational Alt. m (ft)	-61 to 3048 (-200 to 10,000)
Voltage	200-240 V
Frequency	60/50 Hz
Power Conversion Efficiency	92% at 50% load
Power Supply	2x 1856 W
Airflow	130 CFM max
Operational Temperature Range in °C (°F)	5 to 35 (41 to 95)
Non-operational Temperature Range in °C (°F)	5 to 45 (41 to 113
Relative Humidity - Operating	20% to 80% non-condensing
	*At sea-level with 2% derating per 1000ft of altitude
Relative Humidity - Non-operating	10% to 90% non-condensing

Vibration and Shock

Operational Shock	5 G, 0 - peak 11ms half sine
Non-Op. Shock	10 G, 0 - peak 11ms half sine
Operational Vibration	Random 0.15 Grms 5 - 500Hz
Non-Op. Vibration	Random 0.5 Grms 5 - 500Hz
Acoustics (@23°C)	Sound Power Operating max <86dB

Safety and Regulatory Agency Approvals

Agency Certifications	CSA, EMI, FCC Class A, CE, CCC, TÜV-GS, CB, CE VCCI

Learn more at http://www.ddn.com/products/sfa12k

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