

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.

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

ABOUT DDN®

DataDirect Networks (DDN) is the world's leading big data storage supplier to data-intensive, global organizations. For more than 15 years, DDN has designed, developed, deployed and optimized systems, software and solutions that enable enterprises, service providers, universities and government agencies to generate more value and to accelerate time to insight from their data and information, on premise and in the cloud. Organizations leverage the power of DDN technology and the deep technical expertise of its team to capture, store, process, analyze, collaborate and distribute data, information and content at largest scale in the most efficient, reliable and cost effective manner. DDN customers include many of the world's leading financial services firms and banks, healthcare and life science organizations, manufacturing and energy companies, government and research facilities, and web and cloud service providers. For more information, visit our website www.ddn.com or call 1-800-837-2298.