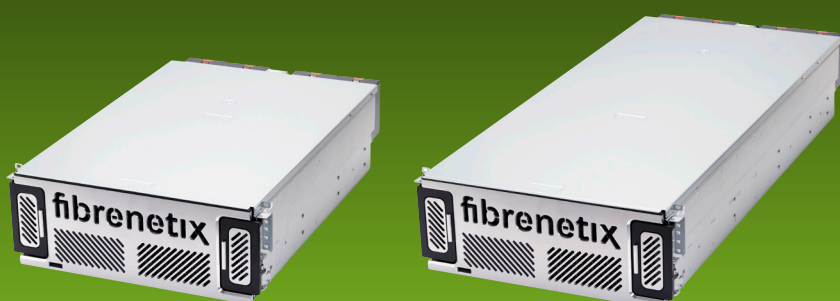




Data sheet

JBOD Expansion - Ultra-density and Scalable Storage



60 BAY JBOD EXPANSION

102 BAY JBOD EXPANSION

60- and 102-bay JBOD Expansion. Built for the CCTV surveillance industry. Enterprise reliability. Space, Power, Coolant efficient.

Ultra-density and Scalable Storage

The demand for highly robust video surveillance storage has been growing exponentially in recent years. New high-resolution IP Cameras are deployed in greater numbers, with requirements for increased retention periods, from 30 days to 120 days.

This ongoing growth has increased the requirement for huge storage capacity of video data, especially in the sector of +500 cameras and upwards. The FibreNetix Series of Enterprise class storage enclosures and servers address these industry requirements for huge storage capacity and demanding recording server performance.

The Ultra-Density 60- and 102-bay JBOD storage enclosure offers a massive capacity of up to 2,040TB using 20TB hard drives. With scalability, five enclosures can be daisy chained together to provide 9.1 Petabytes (10,240TB) of storage.

The 60 and 102 JBOD enclosures, are compatible with all FibreNetix products, including E-Series FC and iSCSI Storage (IP SAN), SVS Servers and GOLD Servers. Providing a truly versatile product, with one of the best cost per GB ratios in the CCTV industry today. Enterprise reliability is achieved via the dual SAS controllers which are hot-pluggable and provide complete failover service for FibreNetix Storage and Server products.

The 60 and 102 Series has been tested with Microsoft Fileserver 2012 R2 and 2016 for cutting edge features and performance.



Up to 10.200PB Enterprise High density Class Storage

Features:

- 4U 60-bay or 102-bay – SAS/SATA drives
- Up to 2.040PB per 4U enclosure
- Redundant Hot Swap Drive, SAS, Power and Cooling module
- Dual I/O controller for Redundant servers
- Supports up to 2400 MB/sec bandwidth per controller module
- Up to 24 SSDs (SAS or SATA) for data acceleration tiering

Advantages:

- Space Efficient – more TB per rackmount cabinet
- Fully tested for Microsoft File Server 2012 R2 and 2016
- Fully tested with all major VMS
- Fully Scalable – up to 5 × JBODs can be daisy chained
- Plug&Play Technology – add more drives without taking the system offline
- Green Technology: Uses 30% less power, less cooling
- Enhanced Reliability
- Vibration Control
- Raid Controller Active/Active

Applications:

- CCTV Enterprise Class
- Media & Entertainment
- Medical
- Data Center
- BIG DATA and Cloud Business



Technical Specifications

Product Category	JBOD Storage Expansion 60-bay	JBOD Storage Expansion 102-bay
Enclosure Form Factor 19" Rackmount	4U 60-bay	4U 102-bay
No. of Drive Bays	60	102
Max. HDD Capacity Supported	20TB	20TB
Max. RAW Storage Capacity	1200TB	2040TB
Drive Support	12Gb/s SAS and SSDs – 6Gb/s SATA (single controller only if SATA)	
Device Form Factor	3.5" (up to 18TB per drive) and 2.5" - Up to 24 SSDs	
I/O Controller Host Interface	12x12 Gb/s SAS 3	
Expansion Interface	6 × port SFF-8088 per controller	
Controller Support	12Gb/s Host-based RAID Controller cards and HBAs with external connectivity Fibrenetix, E-series (FC&iSCSI) – SVS servers and Gold Series Servers	

Hot Swappable and Redundancy	
Disk Drives	Hot-Swap
Cooling Fans	4 × FAN module (each module has dual fans) - Hot-Swap
Power Supply	Redundant (1+1), Dual output up to 1200W

Monitoring & Notifications	
LED Indicators	Identify Enclosure Power ON Activity / Fault for each Individual Drive Caddy

Raid Controller	
EXPANSION	Fibrenetix RAID 5&6 - E-Series and Server ranges
EXPANSION	Up to five JBOD storage enclosures, up to 510 hard disk drives
Dimensions (W × H × D, mm)	447 × 175 × 722mm without Cable ARM
Dimensions for 19" Rack (D, mm)	447 × 175 × 1057 without Cable ARM
Dimensions for 19" Rack (D, mm)	Extended rack depth: 1200mm
Weight (kg)	28.3kg empty – 80.4kg with HDDs
Safety Standards	32.8kg empty – 119.9kg with HDDs
Safety Standards	SCSI Enclosure Services (SES) 2.0 based

Operational Environment	
Temperature	5°C to 40°C (41°F to 104°F)
Relative Humidity (%)	5% to 80% (non-condensing), humidity gradient: 10% per hour, altitude: -200ft to 10,000ft
Shock	5G at 11ms, 1/2 sine wave pulse
Vibration	0.15G at 5Hz to 500Hz
Acoustics (tested to ISO7779)	65 dB at normal operation
BTU/Hr	72 dB at normal operation
BTU/Hr	4,103.04
Certification	5,470.72
Certification	BSMI, CE, RCM, FCC(Class A)
Warranty Period	3 Years

*Specifications are subject to change, without prior notice.