E8 & E88 Series – High Performance, iSCSI RAID System

E8 12-BAY 2U

Fibrenetix E8 RAID Storage is the powerhouse of the E-Series. Designed and developed for today's most demanding Video Surveillance installations, the E8 offers unparalleled performance of up to 1900MB/sec when fully loaded with SAS drives and 1500MB/sec with SATA drives. Whether you work with HD or 4K Cameras, the E8 & E88 meets your performance needs.

E8 Highlights – Latest Intel technology processor, taking transfer rates to a new industry level

Fibrenetix E8-Series offers highly scalable storage, specifically designed and developed to meet the demanding needs of medium-range to high-end surveillance applications.

The E8-Series is based around Fibrenetix high performance video streaming chip technology, offering at least 30% more performance than any other product on the market and at least 30% more cameras per storage controller.

The E8-Series with dual 10Gbit iSCSI connection has been designed and built to meet surveillance demand for hundreds of video streams and massive storage capacity, with long data retention periods and with the smallest possible footprint. Each E8-series can service up to 700 Cameras Streams (1080P, 4Mbps), with a storage capacity of up to 10.24 Petabytes per iSCSI controller.

Additional E8 systems can be added to the storage network offering scalability up to hundreds of Petabytes to meet the requirements for Homeland Security, Airports and City Centre surveillance installations.

The 16-bay E88-Series comes with a dual controller option which enables a fully redundant mode. All connection points and JBOD controllers also have dual controller support. Combined with hot swap power supplies, fans and hard disk drives, the E88 Series offer real Enterprise Class High Availability.

E8-Series is also available with dual 16Gbit Fibre Channel host connection.

E8 12-BAY FRONT VIEW

E8 0-BAY FRONT VIEW

E8 16-BAY FRONT VIEW

4:0 E8 & E88 Series

E8 & E88 Series

Feature Overview

- 2x 10Gbit ethernet host connections

- 4GB Cache as standard, upgradeable to 8GB

- Dual Active/Active RAID controller option (SAS drives only) for maximum fault tolerance

- Supports high performance 12Gbit SAS, 6Gbit SATA-III & Solid-State Disks, pushing transfer rates and reliability to a new level

- Selectable RAID levels: JBOD, 0, 1, 0+1, 3, 5, 30, 50, 60 plus RAID-6 for the ultimate protection of your valuable data

- New Firmware and Graphic User Interface, with optional LUN masking capabilities

- Optional multi-lane SAS connector for expandability and scalability – add JBOD storage to connect up to 512 HDDs

- High-end enterprise E-Series caddy system offers the best protection of hard drives and data, supporting 10K & 15K RPM hard drives

- Flexibility to use SAS and SATA drives simultaneously in a single E8 enclosure (single controller only)

- Powerful dual redundant PSU's – offering sufficient power to support high performance hard drives and controller

- With increased reliability and MTBF (mean time between failures) of critical components 'Environmentally friendly' E8 supports industry standard MAID technology (spinning down drives when not in use), considerably reducing power consumption

- Intelligent cooling system continuously adapts to environmental conditions by automatically controlling the speed of the fans for optimal cooling

- Sophisticated monitoring and alert system enabling the system administrator to monitor and receive alerts via onboard Ethernet connection

- Built-in management software supports most internet browsers and alerts can be sent via POP3 email, SNMP or network broadcasting, ALL without any installation of software or drivers on the host

- Robust 1U, 2U 12-bay, 3U 16-bay

Dual Controller and ALUA

When users require minimum downtime then Fibrenetix E88 dual controller subsystems provide the ideal solution. E88 offers TRUE Active/Active RAID controllers for maximum fault tolerance. Failover is supported via industry standard ALUA (Asymmetric Logical Unit Assignment) currently the standard in MAC OS X and Windows 2016.

E88 is a true enterprise class product supporting SAS 15K RPM drives, usually only available with more expensive products.

Fibrenetix E88 offers high scalability via SAS expander port connections to Fibrenetix E88 JBOD family of 12, 16, 60, 102 and 105 bay JBOD enclosures. E88 Series and UDS-JBOD enclosures can be mixed and matched to support up to 512 devices, offering a staggering total of more than 10.24 Petabytes per RAID controller subsystem.

Enterprise Reliability...
Without the Enterprise Price point

The E8 is based on Fibrenetix E-Series enclosure, with several years proven track record as one of the most reliable enclosures in its class. The total cableless design supports Fibrenetix Smart Cooling Technology, with a caddy system that protects all hard drives and data against vibration and electronic interference.

HOT SWAPPABLE PSUs

HOT SWAPPABLE RAID CONTROLLERS

HOT SWAPPABLE HDDs

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Technical Specifications

Product Versions	E8-1U	E8-2U 12-bay	E8-3U 16-bay
RAID Controller	Dual Core 1.2GHz Processor		
RAID Design	-	Cableless Intelligent Backplane Integration	
Memory	2GB DDR4-800 (up to 8GB)	4GB DDR4-800 SDRAM With ECC protection (upgradeable to 8GB)	
Storage Bays	-	12x Hot-swap	16x Hot-swap
Max. HDD Capacity	-	20TB	
Maximum Raw Storage Capacity	-	240TB	320TB
High Security RAID Level	RAID-6		
Supported RAID Levels	JBOD, 0, 1, 0+1, 3, 5, 6, 30, 50, 60		
Host Bus Interface	10Gbit/s via SFP+ or 8Gbit/s & 16Gbit/s Fibre Channel		
Host Bus Channels (E8)	2 Channels		
Host Bus Channels (E88)	2x2 Channels		
Disk Bus Interface	6Gbit/s SATA & 12Gbit/s SAS		
Disk Bus Channels	–	12 Independent Channels	16 Independent Channels
Host Requirement	Host Independent and Transparent		
Operating Systems	OS Independent and Transparent		
Hot Swap Components	PSUs and Fan Modules	HDDs, PSUs and Fan Modules	
Management Solution	RS232, Web-browser and SNMP		
Alerts	Audible Alarm, LEDs, RS232, Web-browser, POP3 Email and SNMP traps.		
Power Supply	2 x Independent 200 Watts Power Supply	2 x Independent 400 Watts Power Supply	2 x Independent 560 Watts Power Supply
Voltage	100-127 Vac, 200-240Vac 50/60Hz auto-sensing		
Dimensions – mm (D x W x H)	400 x 445 x 43.5 (1U)	520 x 440 x 88 (2U)	520 x 440 x 135 (3U)
Net Weight (HDDs not included)	9.5Kgs	20Kgs	25Kgs
Environment	Operation temperature: 10ºC ~ 35ºC Non-operation temperature: -40ºC ~ 70ºC		
Relative Humidity (%)	Non-operation humidity: 20% ~ 90% (Non-condensing)		
Accessories	2 x Power Cords, Warranty Card, Quick-User Guide		
Certification	BSMI, CE, RCM, FCC(Class A)		
Warranty Period	3 Years		
BTU/Hr	683.84	1,367.68	1,914.75

Specifications are subject to change, without prior notice

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