

Enterprise F16 RAID

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INTELLIGENT AND INNOVATIVE STORAGE SUBSYSTEM

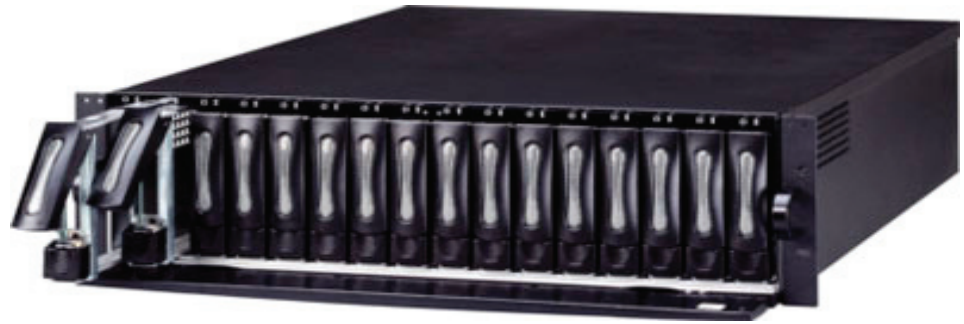
SERIAL ATA: THE NEXT GENERATION INTERNAL STORAGE
INTERCONNECT!

576GB TO 6,400GB (6.4TB) CAPACITIES IN 19" 3U RACKMOUNT

INTEL 80303 64-BIT RISC I/O PROCESSOR

Enterprise™ F16 Serial ATA to Fibre Channel RAID series are intelligent and innovative storage subsystems for mission critical and high bandwidth applications. Purpose-built for high volume, fail-safe data storage applications, the Enterprise F16 Serial ATA RAID sets new standards in its class.

Dynamic Network Factory presents



Enterprise

Enterprise F16 RAID

576GB to 6.4TB - 16 Drive 3U

SATA to 2Gb FC RAID

Enterprise™ F16 Serial ATA to Fibre Channel RAID series are intelligent and innovative storage subsystems for mission critical and high bandwidth applications. Purpose-built for high volume, fail-safe data storage applications, the Enterprise F16 Serial ATA RAID sets new standards in its class. It features a backplane design for sixteen hot-swappable Serial ATA disk drives, N+1 load sharing power supplies with PFC, pure Aluminum case & components, and specially designed airflow passages.

RAID FUNCTIONALITY

Enterprise F16 Serial ATA RAID is equipped with a Serial ATA-to-2Gb Dual Loop Optical SFP LC Fibre Channel RAID controller to offer fault-tolerant data protection. It is 100% transparent to the host operating system and requires no custom drivers. It is a full featured data protection subsystem supporting RAID levels 0, 1, 0+1, 3, 5, and JBOD. It is the ideal storage solution for applications requiring high data throughput, availability, and flexibility in configuration.

SERIAL ATA FEATURES

Serial ATA's point-to-point signaling provides full bandwidth to each connected device, hot plug capability, smaller connectors, standardized connector placement and layout, simpler cabling and longer cable lengths. The cost advantages and performance of Serial ATA can make it a compelling alternative to other technologies.

ENVIRONMENTAL FEATURES

System reliability of the Enterprise F16 Serial ATA RAID is ensured by an environmental monitoring unit. The environmental monitoring unit monitors the internal environment of the disk enclosure such as power supplies, temperature, voltage and cooling fans. It not only tracks the enclosure temperature, but also monitors individual disk temperatures as well. If any irregularity in these systems occurs, the monitoring unit alerts the administrator with an audible alarm, by fax and pager.

USER INTERFACE

All major components including drives, power supplies and fans are redundant and removable for easy serviceability. The Enterprise F16 Serial ATA RAID features an easy-to-read menu-driven LCD display of array/drive status and array configuration commands. It comes with fault and activity LEDs, Up, Select, Down and Exit buttons for easy operation.

DESIGN FEATURES

Enterprise F16 Serial ATA RAID subsystems come with 16 hot-swappable Serial ATA disk drives and trays. Reliability is insured with load sharing hot swappable triple redundant (N+1) 300 Watt power supplies with PFC. The Enterprise F16 Serial ATA RAID's scalable design makes expansion easy when storage needs increase. It is the ideal storage solution for applications requiring high data throughput, availability, and flexibility in configuration.

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UNIT FEATURES

- 576GB to 6,400GB (6.4TB) Capacities in 19" 3U Rackmount
- Serial ATA: The next generation internal storage interconnect!
- Dual 2Gb Dual Loop Optical SFP LC (Short Wave) Fibre Channel Host Ports
- Dual-Host Capability - Easy Volume Sharing with Dynamic Share (Optional)
- Supports RAID levels 0, 1, 0+1, 3, 5 and JBOD
- Features Intel 80303 64-bit RISC I/O processor
- Supports up to 512MB of Cache (128MB Standard)
- Smart-function LCD panel
- Triple redundant 300 Watt N+1 load-sharing hot-swappable power supplies
- High quality advanced cooling fans
- Supports hot spare and automatic hot rebuild
- Allows online capacity expansion within the enclosure
- Local audible even notification alarm
- Supports password protection and UPS connection
- Built-in serial port interface for remote event notification
- Aluminum chassis offering a unique combination of light weight and high strength as well as being an excellent thermal conductor.
- Tagged command queuing for 255 commands, allows for overlapping data streams
- Transparent data protection for all popular operating systems
- Supports multiple array enclosures per host connection
- Real time drive activity and status indicators
- Environmental monitoring unit
- Industry standard 3U 19" rack mountable chassis
- Up to 3 Years Parts & Labor Warranty (1 Year Standard)

TECHNICAL SPECIFICATIONS

MODEL	Enterprise F16 Serial ATA-to-Fibre Channel RAID
FORM FACTOR	3U 19" Rackmount
RAID PROCESSOR	Intel 80303 64-Bit RISC
RAID LEVEL	0, 1, 0+1, 3, 5, JBOD
CACHE MEMORY	128MB - 512MB
NO. OF CHANNELS (HOST)	2
NO. OF CHANNELS (DISK)	16
HOST BUS INTERFACE	2Gb Dual Loop Optical SFP LC Fibre Channel
DISK BUS INTERFACE	SATA 1.5Gb/s (150MB/Sec)
DATA TRANSFER RATE	Up to 200MB/Sec
BACKPLANE BOARD	SATA 1.5Gb/s (150MB/Sec)
HOT-SWAPPABLE TRAYS	Sixteen (16) 1" Trays
TAGGED COMMAND QUEUING	Up to 255 commands
HOT-SWAPPABLE POWER SUPPLIES	Three (3) 300 Watt w/PFC
COOLING FAN	2 (Blower)
FAX/PAGER NOTIFICATION	Yes
AUDIBLE ALARM	Yes
FAILED DRIVE INDICATOR	Yes
FAILED DRIVE AUTO REBUILD	Yes
ONLINE CONSISTENCY CHECK	Yes
CONTINUOUS REBUILD	Yes
SCSI ID AUTO SETTING	Yes
HOST INDEPENDENT	Yes
ONLINE EXPANSION	Yes
ENVIRONMENT MONITOR	Yes
MTBF (hrs)	> 500,000
POWER REQUIREMENT	AC 90V ~ 254V Full Range 12A / 6A at 110V / 200V, 50Hz / 60Hz

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ORDER INFORMATION

PART#	TOTAL CAPACITY	RAID 5 CAPACITY	SATA DRIVES
ENF1636r	576GB	540GB	WD Raptor 36GB 10,000RPM
ENF1674r	1,184GB	1,110GB	WD Raptor 74GB 10,000RPM
ENF1680r	1,280GB	1,200GB	80GB 7200RPM
ENF16120r	1,920GB	1,800GB	120GB 7200RPM
ENF16160r	2,560GB	2,240GB	160GB 7200RPM
ENF16200r	3,200GB	2,800GB	200GB 7200RPM
ENF16250r	4,000GB	3,500GB	250GB 7200RPM
ENF16300r	4,800GB	4,096GB	300GB 7200RPM
ENF16400r	6,400GB	5,200GB	400GB 7200RPM

UPGRADE OPTIONS

PART NUMBER	DESCRIPTION
ENF16u256	Upgrade Enterprise F16 RAID to 256MB Cache
ENF16u512	Upgrade Enterprise F16 RAID to 512MB Cache
ENF16tray	Spare Hot-Swappable Drive Tray for Enterprise F16 RAID
ENF16ps	Spare Hot-Swappable Power Supply Module for Enterprise F16 RAID
ENF16fan	Spare Hot-Swappable Fan Drawer Module for Enterprise F16 RAID
ENF16rails	24" Mounting Rails for Enterprise F16 RAID
WARext1YR	Extend Parts & Labor Warranty for 1 Additional Year (2 Years Total)
WARext2YR	Extend Parts & Labor Warranty for 2 Additional Years (3 Years Total)

ABOUT DYNAMIC NETWORK FACTORY

COMPANY VISION

Dynamic Network Factory is dedicated to creating cost-effective and high quality storage solutions while relying on innovative spirit and engineering excellence. With this singular focus, DNF is primed to become one of the leading providers of storage solutions for diverse organizations worldwide.

RAID CERTIFICATION

DNF is committed to building rock-solid systems from the bottom-up. Each drive used by DNF goes through a sophisticated and grueling 120 hour testing process, weeding out units that exhibiting signal quality problems, data mismatch errors, temperature and power regulation issues, or other conditions that escaped the manufacturer's testing process. The survivors receive our "RAID Certified" seal of approval.

COMPANY PROFILE

Dynamic Network Factory (DNF) has a long heritage of creating cutting-edge customer-driven products. As an engineering-focused company, with a history specializing in storage solutions, DNF is poised to rapidly expand its customer base and define the next generation of storage solutions ranging from workgroup RAID systems to iSCSI engines, and modular enterprise Fibre Channel solutions. DNF started as US subsidiary of Japanese publicly-traded IT conglomerate CSK Electronics in 1989. In 1998 the company refined its strategy and began to focus the hardware group on storage solutions. Within a year, DNF's rapid growth resulted in its emergence as an independent, privately-held spin-off. Serving over 20,000 customers since its inception in 1989, DNF has provided custom solutions for organizations of all sizes and built products for many familiar computer manufacturers as an OEM.