

Enterprise F12 RAID

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INTELLIGENT AND INNOVATIVE STORAGE SUBSYSTEM

432GB TO 4,800GB CAPACITIES IN 2U RACKMOUNT

SERIAL ATA: THE NEXT GENERATION INTERNAL STORAGE
INTERCONNECT!

SUPPORTS UP TO 1GB OF CACHE

Enterprise™ F12 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 F12 Serial ATA RAID sets new standards in its class.

Dynamic Network Factory presents



Enterprise

Enterprise F12 RAID

432GB to 4.8TB - 12 Drive 2U
SATA to 2Gb FC RAID

Enterprise™ F12 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 F12 Serial ATA RAID sets new standards in its class. It features a backplane design for twelve hot-swappable Serial ATA disk drives, dual 350W load sharing hot-swappable power supplies with PFC, pure Aluminum case & components, and specially designed airflow passages.

RAID FUNCTIONALITY

Enterprise F12 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, 30, 50 and JBOD. It is the ideal storage solution for applications requiring high data throughput, availability, and flexibility in configuration. Optional battery backup offers an additional safe-guard to your data.

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.

REMOTE MANAGEMENT

The Enterprise F12 Serial ATA RAID offers an extensive variety of monitoring and management tools for both local and remote management. The Enterprise F12 Serial ATA RAID features an optional R-Link Ethernet port for web browser-based remote management. With the R-Link upgrade option, an intuitive graphical user interface allows all configuration, event notification, and management to easily handled remotely. Local management tools include a menu-driven front panel display, a terminal serial port, audible alerts and real-time drive status indicators. All major components including drives, power supplies and fans are redundant and removable for easy serviceability.

ENVIRONMENTAL FEATURES

System reliability of the Enterprise F12 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.

DESIGN FEATURES

Enterprise F12 Serial ATA RAID subsystems come with 12 hot-swappable Serial ATA disk drives and trays. Reliability is insured with load sharing hot swappable dual redundant 350 Watt power supplies with PFC. The Enterprise F12 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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TECHNICAL SPECIFICATIONS

MODEL	Enterprise F12 SATA-to-Fibre Channel RAID
FORM FACTOR	2U 19" Rackmount
RAID PROCESSOR	Intel 80321 64-Bit RISC
RAID LEVEL	0, 1, 0+1, 3, 5, 30, 50 and JBOD
CACHE MEMORY	128MB - 1GB (128MB Standard)
NO. OF CHANNELS (HOST)	2
NO. OF CHANNELS (DISK)	12
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	Twelve (12) 1" Trays
TAGGED COMMAND QUEUING	Up to 256 commands
HOT-SWAPPABLE POWER SUPPLIES	Two (2) 350W 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
SNMP PROTOCOL SUPPORT	Yes
ENVIRONMENT MONITOR	Yes
MTBF (HRS)	> 500,000
POWER REQUIREMENT	AC 90V ~ 264V Full Range 8A / 5A at 115V / 230V, 47Hz / 63Hz
RELATIVE HUMIDITY	10% to 85% Non-Condensing
OPERATING TEMPERATURE	10°C ~ 50°C
NON-OPERATING TEMPERATURE	-40°C ~ 60°C
DIMENSIONS	3.46" H x 18.98" W x 25.59" D

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UNIT FEATURES

- 432GB to 4,800GB (4.8TB) Capacities in 19" 2U 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, 30, 50 and JBOD
- Features Intel 80321 64-Bit RISC I/O processor
- Supports up to 1GB of Cache (128MB Standard)
- Smart-function LCD panel
- Load-Sharing Hot-Swappable Dual Redundant 350W Power Supplies with PFC
- High quality advanced cooling fans
- Supports hot spare and automatic hot rebuild
- Allows online capacity expansion within the enclosure
- R-Link Ethernet Port & GUI for Remote Management, Event Notification & Configuration (Optional)
- 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 256 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
- RAID cache battery backup (optional)
- Industry standard 2U 19" rack mountable chassis
- Up to 3 Years Parts & Labor Warranty (1 Year Standard)

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.