

Enterprise 16320 RAID

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INTELLIGENT AND INNOVATIVE STORAGE

576GB TO 6,400GB (6.4TB) CAPACITIES IN 3U RACK

DUAL ULTRA320 SCSI HOST PORTS: UP TO 320MB/SECOND

TRIPLE HOT-SWAPPABLE 300W POWER SUPPLIES W/PFC

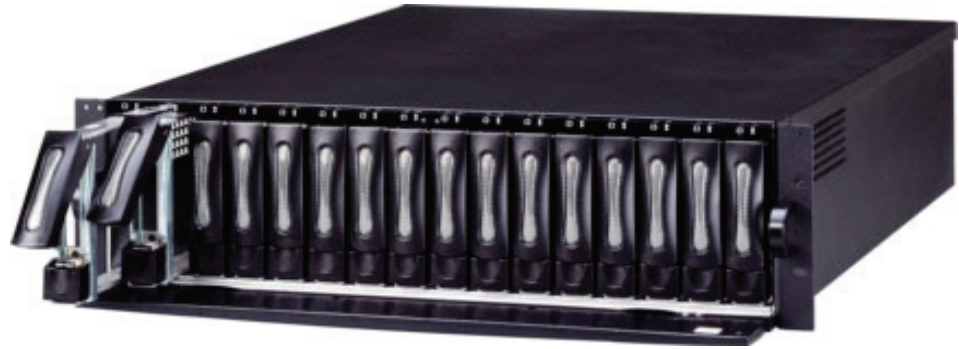
UPTO 1GB RAID CACHE

BUILT-IN ENVIRONMENTAL CONTROLLER

Enterprise™ 16320 Serial ATA 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 16320 RAID sets new standards in its class.

Dynamic Network Factory presents

Enterprise



Enterprise 16320 RAID

576GB to 6.4TB - 16 Drive 3U
SATA to Ultra320 SCSI RAID

Enterprise™ 16320 Serial ATA 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 16320 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 16320 RAID is equipped with a Serial ATA-to-Ultra320 SCSI 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.

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 16320 RAID offers an extensive variety of monitoring and management tools for both local and remote management. The Enterprise 16320 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 16320 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 16320 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 16320 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.

UNIT FEATURES

- 576GB to 6,400GB (6.4TB) Capacities in 19" 3U Rackmount
- Featuring Serial ATA: The next generation internal storage interconnect
- RAID Levels 0, 1, 0+1, 3, 5, 30, 50 and JBOD
- Optional Support for RAID 6
- Features Intel 80321 64-Bit RISC I/O processor
- Dual SCSI Ultra320 LVD host port: Ultra320 SCSI - up to 320MB/Second Data Transfer Rates
- Dual-Host Capability - Easy Volume Sharing with Dynamic Share (Optional)
- O/S Independent
- Load-Sharing Hot-Swappable Triple Redundant 300W N+1 Power Supplies with PFC
- Built-In Environmental Controller
- R-Link Ethernet Port & GUI for Remote Management, Event Notification & Configuration
- Smart-function LCD panel
- 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 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
- Industry Standard 3U 19" Rack Mountable Chassis
- Up to 3 Years Parts & Labor Warranty (1 Year Standard)

TECHNICAL SPECIFICATIONS

MODEL	Enterprise 16320 Serial ATA-to-Ultra320 SCSI RAID
FORM FACTOR	3U 19" Rackmount
RAID PROCESSOR	Intel 80321 64-Bit RISC
RAID LEVELS	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)	16
HOST BUS INTERFACE	Ultra320 LVD
DISK BUS INTERFACE SATA	1.5Gb/s (150MB/Sec)
DATA TRANSFER RATE	Up to 320MB/Sec
BACKPLANE BOARD	SATA 1.5Gb/s (150MB/Sec)
HOT-SWAPPABLE TRAYS	Sixteen (16) 1" Trays
TAGGED COMMAND QUEUING	Up to 256 commands
HOT-SWAPPABLE POWER SUPPLIES	Three (3) 300W 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
DIMENSIONS	5.24" H x 18.98" W x 23.98" D

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SATA to Ultra320 SCSI RAID

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ORDER INFORMATION

PART NUMBER	TOTAL CAPACITY	RAID 5 CAPACITY	SERIAL ATA DRIVES
ENT1632036r	576GB	540GB	WD Raptor 36GB 10,000RPM
ENT1632074r	1,184GB	1,110GB	WD Raptor 74GB 10,000RPM
ENT1632080r	1,280GB	1,200GB	80GB 7200RPM
ENT16320120r	1,920GB	1,800GB	120GB 7200RPM
ENT16320160r	2,560GB	2,240GB	160GB 7200RPM
ENT16320200r	3,200GB	2,800GB	200GB 7200RPM
ENT16320250r	4,000GB	3,500GB	250GB 7200RPM
ENT16320300r	4,800GB	4,096GB	300GB 7200RPM
ENT16320400r	6,400GB	5,200GB	400GB 7200RPM

UPGRADE OPTIONS

PART NUMBER	DESCRIPTION
ENT16320u256	Upgrade Enterprise 16320 RAID to 256MB Cache
ENT16320u512	Upgrade Enterprise 16320 RAID to 512MB Cache
ENT16320u1GB	Upgrade Enterprise 16320 RAID to 1GB Cache
ENT16320uRLINKi	Add R-Link Connectivity to Enterprise 16320 RAID (Internal Option)
ENT16320uRLINKe	Add R-Link Connectivity to Enterprise 16320 RAID (External Option)
DSHRscsi Dynamic	Share Volume Sharing Solution for Dual-Host 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.