

Enterprise 12320 RAID

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INTELLIGENT AND INNOVATIVE STORAGE

432GB TO 4,800GB (4.8TB) CAPACITIES IN 2U RACK

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

LOAD-SHARING HOT-SWAPPABLE TRIPLE REDUNDANT 300W N+1
POWER SUPPLIES WITH PFC

UP TO 1GB RAID CACHE

BUILT-IN ENVIRONMENTAL CONTROLLER

Enterprise™ 12320 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 12320 RAID sets new standards in its class.

Dynamic Network Factory presents



Enterprise

Enterprise 12320 RAID

432GB to 4.8TB - 12 Drive 2U
SATA to Ultra320 SCSI RAID

Enterprise™ 12320 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 12320 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 12320 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. 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 MONITORING

The Enterprise 12320 RAID offers an extensive variety of monitoring and management tools for both local and remote management. The Enterprise 12320 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 12320 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 12320 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 12320 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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SATA to Ultra320 SCSI RAID

UNIT FEATURES

- 432GB to 4,800GB (4.8TB) Capacities in 19" 2U Rackmount
- Serial ATA: The next generation internal storage interconnect
- RAID Levels 0, 1, 0+1, 3, 5, 30, 50 and JBOD
- Supports hot spare and automatic hot rebuild
- Allows online capacity expansion within the enclosure
- Features Intel 80321 64-Bit RISC I/O processor
- O/S Independent
- Dual SCSI Ultra320 LVD host ports: Ultra320 SCSI - up to 320MB/Second Data Transfer Rates
- Dual-Host Capability - Easy Volume Sharing with Dynamic Share (Optional)
- Up to 1GB RAID Cache (128MB Standard)
- RAID Cache Battery Backup (Optional)
- Load-Sharing Hot-Swappable Dual Redundant 350W Power Supplies with PFC
- Built-In Environmental Controller
- High quality advanced cooling fans
- R-Link Ethernet Port & GUI for Remote Management, Event Notification & Configuration (Optional)
- Smart-function LCD panel
- Local audible event 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 2U 19" Rack Mountable Chassis
- Up to 3 Years Parts & Labor Warranty (1 Year Standard)

TECHNICAL SPECIFICATIONS

MODEL ENTERPRISE	12320 Serial ATA-to-Ultra320 SCSI RAID
FORM FACTOR	2U 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)	12
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	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
DIMENSIONS	3.46" H x 18.98" W x 25.59" D

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ORDER INFORMATION

PART NUMBER	TOTAL CAPACITY	RAID 5 CAPACITY	SERIAL ATA DRIVES
ENT1232036r	432GB	396GB	WD Raptor 36GB 10,000RPM
ENT1232074r	888GB	814GB	WD Raptor 74GB 10,000RPM
ENT1232080r	960GB	880GB	80GB 7200RPM
ENT12320120r	1,440GB	1,320GB	120GB 7200RPM
ENT12320160r	1,920GB	1,760GB	160GB 7200RPM
ENT12320200r	2,400GB	2,000GB	200GB 7200RPM
ENT12320250r	3,000GB	2,500GB	250GB 7200RPM
ENT12320300r	3,600GB	3,000GB	300GB 7200RPM
ENT12320400r	4,800GB	4,000GB	400GB 7200RPM

Upgrade Options

PART NUMBER	DESCRIPTION
ENT12320u256	Upgrade Enterprise 12320 RAID to 256MB Cache
ENT12320u512	Upgrade Enterprise 12320 RAID to 512MB Cache
ENT12320u1GB	Upgrade Enterprise 12320 RAID to 1GB Cache
ENT12320uRLINKi	Add R-Link Connectivity to Enterprise 12320 RAID (Internal Option)
ENT12320uRLINKe	Add R-Link Connectivity to Enterprise 12320 RAID (External Option)
ENT12320uBAT	Add Battery Backup to Enterprise 12320 RAID Cache
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.