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HEWLETT PACKARD
Expanding Possibilities

HP NetServer NetRAID-1Si

product brief

Disk Array Controller for HP NetServers

Affordable RAID data protection for low-to-mid-range servers

Information technology professionals rely on HP NetRAID disk array controllers to ensure maximum server uptime and data protection across the enterprise. Now you can get high availability for a low price with the NetRAID-1Si. Designed specifically to meet the needs of small to medium-sized businesses, the HP NetRAID-1Si has the feature set that has made the original HP NetRAID disk array controllers successful, packaged in a single-channel version.

Flexible and dependable results

Because it shares common features and software with other HP NetRAID products, the HP NetRAID-1Si disk array controller can easily be deployed and managed across a range of servers. An intuitive, graphical user interface with a wizard feature simplifies set up and allows you to monitor and manage physical and logical drives, add capacity, and migrate RAID levels on the fly.

With today's networks growing up and out, it's good to know you can also manage the HP NetRAID-1Si disk array controller from a remote console. And, of course, like all HP NetServer products, this solution is backed with HP's world-class service and support to ensure your success.

Leading the Way with I_2O and Ultra2 SCSI

The HP NetRAID-1Si is the important first step in deploying I_2O (Intelligent Input/Output) technology across HP NetServer systems. I_2O offers the potential to increase overall system performance by changing the design of device drivers. The I_2O split driver architecture allows computing overhead associated with I/O service requests to be shifted from the system CPU to dedicated I/O processors, such as the one on the HP NetRAID-1Si. Both I_2O and non-I_2O drivers are supported with the HP NetRAID-1Si controller.

Ultra2 (LVD) SCSI has been incorporated into the HP NetRAID-1Si for greater speed and flexibility. Low-voltage differential (LVD) technology is the latest step in the evolution of the small computer system interface (SCSI). It doubles the maximum bus transfer rate to 80MB/sec while extending bus length up to 12 meters. The HP NetRAID-1Si also supports hard drives and enclosures that use Fast/Wide and Ultra/Wide single-ended SCSI.

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HP NetServer NetRAID-1Si

Specifications	
RAID Levels Supported	0,1,3,5,10,30,and 50
SCSI Connectors	One 68-pin, high-density internal connector; One 68-pin, ultra-high-density external connector
SCSI Channels	One
Devices per SCSI Channel	Up to 12 Ultra2 SCSI hard drives
SCSI Device Types Supported	Synchronous or Asynchronous
SCSI Bus	LVD (Low Voltage Differential)
SCSI Data Transfer Rate	Up to 80MB/s (Ultra2 SCSI)
Termination SCSI	Active
Card Size	7.375” x 4” (half-length PCI)
Multiple Cards	Up to six HP NetRAID family adapters per system
Bus Type	Universal
Bus Data Transfer Rate	Up to 132 MB
Processor	Intel®i960RP™ 32-bit RISC processor @ 33MHz
Cache Configuration	16MB SIMM
Nonvolatile RAM	32KB
BIOS	HP NetRAID BIOS
Tone Generator	Audible warnings indicate degraded drives, offline drives, and drive rebuilds

Flexible, reliable RAID data protection priced within your budget

Features	Benefits
Easy To Manage	
• Graphical user interface	• Easy, intuitive installation, array configuration, and monitoring
• Integration with HP NetServer Assistant	• Centralized event notification
• Remote console monitoring	• Simplified management of all HP NetRAID adapters in Microsoft Windows®NT™ and Novell®NetWare® servers
• Configuration replication and storage on disks	• Prevents configuration loss in the event of array controller failure • External storage system can be easily moved to a new server
Maximum uptime and data protection	
• Seven RAID levels (0, 1, 3, 5, 10, 30, 50)	• Flexibility to maximize data storage performance under varied server uses
• Online capacity expansion and RAID level migration	• No need to back up and restore data to add capacity • RAID levels can be changed quickly to keep up with changing requirements
• Hot spare disk drives	• Completely unattended rebuild of failed drives
• On-board tone generator	• Audible warning of disk status for prompt attention
Superior value	
• Priced for lean budgets	• Affordable solution for data protection on file and application servers with a small number of disk drives

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Ordering Information

Description	Product No.
NetRAID-1Si	D2140A
Cable to use with HP NetServer E Series or LC family	D5968A[1]
Cable to use with HP NetServer LH 3/LH 4 and LX Pro	D4282B[1]
Cable to use with HP NetServer LPr	D7082A[1]
Cable to or external connection to the HP NetServer Rack Storage/8 and HP NetServer Rack Storage/12, and NetServer Storage System 6	D6020A, D6982A, D6983A

Supported HP NetServer systems: E 40, E 45, E 50, E 60, LPr, LCII, LC 3, LD Pro, LH 3, LH 4, LH Pro, LH II, LXe Pro, LX Pro, LXr Pro, LXr Pro8, LXr 8000, LXr 8500.

Drivers supported: [2] Netware for Small Business 4.2, Netware 4.2, Netware 5.0, NT 4.0 for Small Business, NT 4.0, NT 4.0 Enterprise, NT 4.0 Enterprise WMSCS[3], NT 4.0 Terminal Server, Open Server 5.0.5 UP & SMP, UNIXWare 7, LINUX 6.0[4], Warp Server SMP 4.0

Note: Only external storage is supported with the E 40. Internal storage in E 45 must be wide (not narrow) SCSI drives.

[1] See system configuration guide for details
[2] Must be supported by HP NetServer system. See HP NetServer Configuration Guide at www.hp.com/netserver
[3] Fall, 1999
[4] Linux support is restricted to specific configurations. See HP NetServer Configuration Guide.

STAY IN TOUCH
www.hp.com/go/netserver

For The Latest Information	
HP NetServer Website	Http://www.hp.com/netserver
HP FAX Response system	1-800-333-3333(U.S.) 1-333-333-3333 (worldwide from fax only)

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