Reliability is the key to meeting the requirements of distributed workgroups. The PowerFrame DS1500 bundles extensive high availability features, including a robust server management solution, to minimize network problems and maximize employee productivity.

Designed for continuous operation, the PowerFrame DS1500 insulates users from time-consuming system downtime with industry-leading techniques. Teamed with Novell's NetWare Management Agent, Tricord's Availability Management Subsystem (AMS) delivers the tools you need to effectively support and manage your workgroup or remote offices. Local and remote access and control keep your system running at its peak without requiring on-site technical support. Console and pager alerts ensure the LAN administrator is always on top of the situation. And because the AMS is an independent subsystem with a battery backup, it continues operation at the most-critical time—when the server is down—providing status and diagnostics for speedy problem resolution.

Reliability is extended across the DS1500 platform. ECC memory ensures data integrity. While providing convenient storage access for up to 28 hot replaceable disk drives, the DS Series PowerFile isolates disk problems from the rest of the server by matching each disk drive with its own power supply. While other servers provide RAID support and disk hot sparing, the DS1500 protects data even further by mirroring and hot sparing disk power supplies. And for network protection in NetWare environments, optional NIC Redundancy™ automatically distributes the network load among the remaining NICs should a NIC fail.

Superior performance is achieved with a dedicated independent controller for disk I/O. This controller ensures instantaneous response time by off-loading the main CPU of disk processing tasks. With up to two Intel™ Pentium™ CPUs, the DS1500 is ready for the newest symmetrical multiprocessing operating systems and applications. And to eliminate network I/O bottlenecks in NetWare environments, the DS1500 is available with NIC Balance™, which spreads the network load among multiple NICs to improve network performance up to 100 percent.
DS1500 Series Features

CPU/CACHE
Intel Pentium 60MHz
with 256 KBytes SLC
Pentium 90MHz or 100MHz
with 512 KBytes SLC

1 to 2

MAIN MEMORY
Memory, ECC
32 to 384 MBytes

DISK I/O PROCESSOR
DPT SmartCache III Disk Controller
PowerFile Disk Expansion Cabinet
Fast SCSI Devices with PowerFiles

1 to 4
1 included, up to 3 additional optional
28 half-height hot replaceable

NETWORK I/O
EISA Bridge Subsystem
with 8 Busmaster Slots

Standard

INTEGRATED I/O
2 Serial Ports
Parallel Port
Mouse Port
Keyboard Port
Integrated Graphics Controller SVGA
Floppy Disk

Asyst, RS-232-C, 9-pin
Centronics and PS/2 compatible, 25-pin
PS/2 compatible
PS/2 compatible
Western Digital WD90C31
3.5" half-height

SYSTEM MANAGEMENT
Novell's NetWare Management Agent
Tricord's Availability Management Subsystem (AMS)

Standard
Standard

HIGH AVAILABILITY FEATURES
RAID 0, 1, 5 and 10
ECC Memory
Disk Hot Sparring Capability
Disk Hot Replacement
Distributed Disk Power with Mirroring
Hot Sparring and Hot Replacement Capabilities
NIC Balance and Redundancy

Standard
Standard
Standard
Standard
Standard
Optional

POWER
230W Power Supply

To ensure adequate power configuration, see the DS Series Reference Guide.

* Each use one of the ISA slots.

Specifications

BASE CABINET DIMENSIONS
Height: 20.4 in (51.81 cm)
Width: 8.5 in (21.6 cm)
Depth: 22.5 in (57.12 cm)
Weight: 44.3 lbs (20.13 kg)

ENVIRONMENTAL SPECIFICATIONS
Temperature: Operating: 50°F (10°C) to 95°F (35°C) ambient
Non-Operating: -40°F (-40°C) to 149°F (65°C) ambient
Humidity: Operating: 20% to 80% @ 35°C
Non-Operating: 20% to 92% @ 65°C
Altitude: Operating: 10,000 ft, (3048 m)
Non-Operating: 50,000 ft, (15,240 m)
Vibration: Random variation 0.16 g, 500 Hz
Noise: < 43 dB (perchloric acid at 1 m) @ 25°C
Static Discharge: Tested to 35 kv, no component damage

Please refer to the DS Series PowerFile Data Sheet for additional information.

Benefits

- RAID 0, 1, 5 and 10, hot sparing and hot replacement for disks and disk power supplies protect your valuable data.
- Robust server management with independent remote access capability keeps you on top of the situation, even if the server is down.
- Scalable design supports up to 384 MBytes of ECC system memory and 28 SCSI drives for resource-intensive environments.
- An Intel Pentium 90MHz or 100MHz with on-board cache and 512 KBytes second-level cache, or up to two Intel Pentium 66MHz CPUs with on-board cache and 256 KBytes second-level cache provide high-performance support for multiprocessing operating systems and CPU-intensive applications.
- An independent, high-performance disk controller maintains instantaneous user response with dedicated microprocessor and performance-enhancing techniques.
- Open system design allows upgradeability of components such as CPUs, network interface cards (NICs), disks and memory as newer designs are available on the market.
- Optional NIC load balancing and redundancy for NetWare eliminates network I/O bottlenecks from saturated single NICs and ensures continued network operation, even if a NIC fails.

Power

Operating Systems
The PowerFrame DS Series supports the following environments and their multiprocessor versions where applicable:
- SCO UNIX, Open Server, Enterprise Server
- SunSoft Solaris 2.x
- Novell NetWare 3.x and NetWare 4.x
- Novell NetWare SFT III
- Novell UnixWare
- IBM OS/2 2.x
- Microsoft Windows NT/4
- Banyan VINES
- Banyan ENS for SCO UNIX

Certifications
Safety:
- UL 1950, 1st edition
- CSA C22.2 No. 950-M84
- TUV GS EN 60 950/IEC585/21911-0-18

Emissions:
- FCC Class A
- CBPR 22/85 Class A
- CE (pending)

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