



PowerFrame DS1500

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.



High availability teamed with high performance for workgroup and remote office computing

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™ 66MHz with 256 KBytes SLC	1 to 2
Pentium 90MHz or 100MHz with 512 KBytes SLC	1
MAIN MEMORY	
Memory, ECC	32 to 384 MBytes
DISK I/O PROCESSOR	
DPT SmartCache III Disk Controller	1 to 4*
PowerFile Disk Expansion Cabinet	1 included, up to 3 additional optional
Fast SCSI Devices with PowerFiles	28 half-height hot replaceable
NETWORK I/O	
EISA Bridge Subsystem with 8 Busmaster Slots	Standard
INTEGRATED I/O	
2 Serial Ports	Async, RS-232-C, 9-pin
Parallel Port	Centronics and PS/2 compatible, 25-pin
Mouse Port	PS/2 compatible
Keyboard Port	PS/2 compatible
Integrated Graphics Controller SVGA	Western Digital WD90C31
Floppy Disk	3.5" half-height
SYSTEM MANAGEMENT	
Novell's NetWare Management Agent	Standard
Tricord's Availability Management Subsystem (AMS)	Standard*
HIGH AVAILABILITY FEATURES	
RAID 0, 1, 5 and 10	Standard
ECC Memory	Standard
Disk Hot Sparring Capability	Standard
Disk Hot Replacement	Standard
Distributed Disk Power with Mirroring, Hot Sparring and Hot Replacement Capabilities	Standard
NIC Balance and Redundancy	Optional
POWER	
230W Power Supply	
To ensure adequate power configurations, see the DS Series Reference Guide.	

* Each uses one of the EISA 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: 44.51 lbs (20.19 kg)
 w/o SCSI devices

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. (3,048 m)
 Non-Operating: 50,000 ft. (15,240 m)

Vibration:

Random variation 0 Hz-500 Hz

Noise:

< 42 db (peripherals idle, at 1 m) @ 25 C

Static Discharge:

Tested to 25 kV; no component damage

POWER

AC Input Power Rating:
 115 VAC 100 to 120 VAC, 5.0 A, 50/60 Hz
 230 VAC 200 to 240 VAC, 4.0 A, 50/60 Hz

Power Outlet Type:

Selectable for location
 Maximum Power: 380W

Heat Generated:

1,292 BTU/hr

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 NTAS
- Banyan VINES
- Banyan ENS for SCO UNIX

CERTIFICATIONS

Safety:

- UL 1950, 1st edition
- CSA C22.2 No. 950-M89
- TUV GS EN 60 950/IEC950/ZH1-618

Emissions:

- FCC Class A
- CISPR 22/85 Class A
- CE (pending)

Benefits

- RAID 0, 1, 5 and 10, hot sparring 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.

Microsoft®



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