FIA POPnetserver 8000

Powerful -- High-Reliability NAS Appliances that Store and Move Data Files Faster

"For a fraction of the cost, the POPnetserver 8000 offers data protection and reliability features found only in enterprise-class NAS products, setting a new standard for affordable data availability."

The POPnetserver 8000 delivers high levels of availability, security, and easy management for today's heterogeneous environments. The system provides up to 2TB of storage, and a multitude of performance features, including symmetrical multi-processing, disk caching, load balancing and high bandwidth I/O. For a fraction of the cost the POPnetserver 8000 offers data protection and reliability features found only in enterprise-class NAS products, setting a new standard for affordable data availability. The NAS system has been designed for business-critical storage users in demanding IT environments that require the lowest TCO.

Powerful and Scalable
The POPnetserver 8000's uses a 3-Path I/O architecture that has been designed to overcome the barriers of throughput by opening the bandwidth size and doubling the system performance compared to traditional NAS storage systems. Direct access to critical data is available in real-time with the systems dual integrated 4-channel Ultra ATA-133 MHz I/O controllers, freeing the processor and other intervening controllers involvement with data transfers. Coupled with Gigabit Ethernet connectivity ensures users quicker access to their data.

Customers can tailor the POPnetsever 8000, as their business needs change. The system provides a flexible solution with support for two high performing Xeon processors, and the ability to scale capacity up to 2TB of storage in a 2U rack dense form factor. The system also supports Fiber gigabit option. These enhancements make the POPnetserver 8000 system more efficient for users who are concerned with storing, retrieving and moving their data files faster.

Data is Continuously Available and Protected
Loaded with features to enhance 24/7 reliability, the systems hot swappable hard drives, along with redundant hot-swappable power supplies and fans ensure system availability. RAID 5 with hot sparing and automatic dual LAN fail-over protection guarantees data integrity. To further enhance availability and data protection, Server-to-Server Replicator, Snapshot Backup/restore, POPbackup and POP Data Replicator software are included to provide disaster recovery and business continuity. Additional direct-attached Ultra 160 SCSI tape backup provides an additional security option with support for third-party software from VERITAS, CA BrightStor, and Dantz.

High Levels of Security
The POPnetserver 8000 meets security requirements with Kerberos authentication, Access Control Lists (ACLs), Dynamic DNS, Lightweight Directory Access Protocol (L-DAP v3), and Secure Shell (SSH) support. Users can be assured of system compatibility and data safekeeping on the network.

Easy to Use and Manage
Support for Microsoft's Active Directory Service (ADS), UNIX Network Information Services (NIS), Simple Network Management Protocol (SNMP), quotas and environmental monitoring tools ensure easy management from anywhere on the network with Windows-based POPassist user interface. System deployment is right out of the box, and can be setup and running in less than 15 minutes.

HIGHLIGHTS

- Expandable storage to 2TB in a 2U rack
- Eight convenient hot swap front-load removable drives, redundant power supplies, and cooling fans
- RAID 5 (0, 1, and 5 plus hot spare, and multiple RAID volume with integrated cache subsystem options)
- 3-Path I/O architecture with dual integrated 4-channel Ultra ATA 100/133 DMA disk controller technology
- Symmetrical multi-processors using Intel Xeon 2.4GHz CPUs and 400MHz FSB
- 1GB to 6GB high performance DDR ECC RAM memory and caching
- Auto-sensing dual Gigabit Ethernet LAN and dual 10/100 Ethernet LAN (Fiber Gigabit option)
- Load-balancing and dual LAN failover
- Multiple disk boot failover
- Data availability and security with POP Disaster Recovery utilities; Snapshot Backup/restore, Server-to-Server Replicator, POP backup, and POP Replicator
- Simplified storage management with Windows-based POPassist; supports Microsoft Active Directory Services (ADS), quotas and environmental monitoring
- Tape backup support using Integrated Ultra 160 SCSI controller

(Easy access to cooling fans)

FIA 3 - Path I/O Architecture supports a dedicated triple-peer PCI-X/PCI data path and dual quad disk controllers that provide a total bandwidth of 533 megabytes per second.

Network Transport Protocols:
TCP/IP
NetBEUI
AppleTalk

Network File Protocols:
Microsoft Networks (CIFS/SMB)
UNIX NFS
Apple (AFP)
Internet (HTTP, HTTPS)
Internet (FTP)

Network Security:
Microsoft NT Domain Controller
Microsoft Active Directory Services (ADS)
UNIX NIS
User-, Share-, and File-level Security
Kerberos authentication
Access Control Lists (ACL)
Dynamic DNS, Lightweight Directory Access Protocol (L-DAP v3), Secure Shell (SSH)

Network Client Types:
Microsoft Windows 95/98/Me/NT, XP, 4.0/2000
Apple Macintosh System 7.5.5, 7.6, OS 8.x, 9.x, 10.x
Red Hat Linux 6.2 and 7.0
FreeBSD UNIX
Solaris 7, 8, 9

Server Emulation:
Windows NT 4.0 and 2000
Appleshare 6.0
NFS 3.0

Network Connection:
Integrated auto-sensing 10/100 Ethernet with RJ-45 network connector
Integrated one Gigabit copper LAN Ethernet with RJ-45 network connector
Dual LAN fail-over for Ethernet and Gigabit (option)

Automatic IP Address Assignment:
Support DHCP, BOOTP, and RARP for automatic assignment of IP address
Support for multiple network segments
Support multiple DHCP

Multiple File System Options:
64-bit file system with enhance buffer and cache is configured for maximum file pro tection or enhanced performance. Its options include:

● RAID 0 (disk striping) one large virtual drive with data striped across all physical drives (no loss in usable capacity)

● RAID 1 (disk mirroring) second set of drives duplicates the first set for maximum data protection (50% usable capacity)

● RAID 5 (disk striping with parity) the size of one volume is reserved for parity checking

● RAID 5+ (RAID 5 with hot spare), additional hot spare volume is reserved on the RAID 5 volume, no performance different upon one of the disk fail within the RAID 5 volume.

Individual Independent Disks and Volumes:
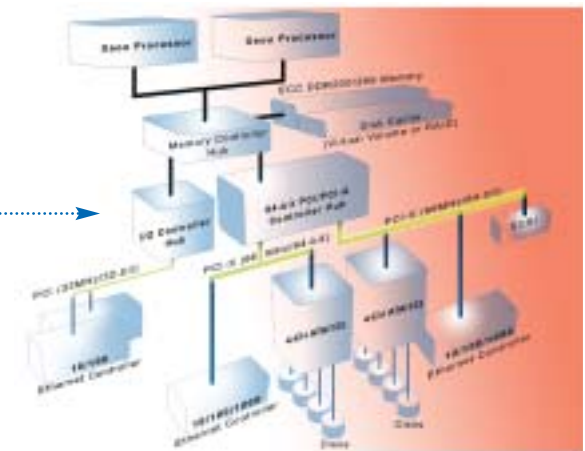Eight separate drives, each seen as a separate volume (JBOD)

Snapshot Backup/restore:
Browser GUI user interface integrated into the OS
Single and multi-volume Snapshot support
Support maximum 15 snapshot views for each volume
Real time and scheduled snapshot backup

Server-to-Server Replicator:
Browser GUI user interface integrated into the OS
Any data, including file system or raw partition data
Entire volume and folder replication
Continuous replication either asynchronous or synchronous
Maximum of 64 simultaneous synchronization replications
Supports multiple network segments

System Management:
POPassist (POPsearch, POPmap, POPmanage)
Web-based Administration
Multiple NIC control with automatically detection and setting for failover and load balancing

Multiple RAID volume
POPbackup (Server backup and restore) with compression
Data Replicator (Windows client backup and restore)
Snapshot Backup
Server-to-Server Replicator
User Space Quotas for Windows, Macintosh and UNIX/Linux
Group Space Quotas for UNIX/Linux Security
Email notification alerts
RAID Volume status
SNMP (MIB II and Host Resource MIB)
Environmental monitoring for disk, CPU temperature, and power supplies
Uninterruptible power supplies (UPS)
Bad sector re-mapping
Front LEDs for power/status, network activity (2), disk activity
Software-controlled front power button

Setup and Configuration:
Web-Based user interface (IE) for system administrator

Physical Specifications:
Main processor unit
Width 17.0 " (43.2 cm)
Depth 28" (65 cm)
Height 3.5" (8.8 cm)
Maximum weight is 65 lbs.

System Certifications:
UL, cUL, CE, FCC- Class A

Power:
Power rating: less than 420 watts, 100-240 VAC, 50-60Hz, auto-sensing external power module
Dual redundant hot-plug power supplies

Models:
For the latest pricing and configurations, refer to www.popnetserver.com or call FIA for the nearest POPnetserver reseller. Prices and configurations subject to change without notice.