

Snap Server™ 4200

KEY FEATURES:

640GB Capacity

Hot-swappable Disk Drives

Dual-Gigabit Ethernet

Integrated CA eTrust
Antivirus Software

Active Directory Service
(ADS) Integration

Snapshot Technology

iSCSI Target Support

Integrated BakBone
NetVault software

Backup Agent and NDMP
Agent Support

Compatible with Symantec
PowerQuest V2i Protector
Software

High-Performance, High-Value Departmental Storage

With more than 145,000 servers shipped and more than 60 industry awards, Snap Appliance is the undisputed leader in Network Attached Storage. Now the company is extending that leadership to the IP SAN market, as well, with its affordable Snap Server 4200 that simultaneously supports both block and file data. The Snap Server 4200 is a rack-optimized 1U file server that delivers performance with a cost-effective feature set. High availability hardware and our own GuardianOS Linux-based operating system offer powerful security, redundancy, and simplicity. New iSCSI target support integrates block services and file services in a single device, allowing databases to run over the existing Ethernet network. Combine all of this with centralized remote administration, no client license fees, and minimal ongoing administration, and it's easy to see how the Snap Server 4200 delivers capacity without complexity.

A Complete Storage Solution

The Snap Server 4200 offers:

- **Scalable Database Storage** — iSCSI target support allows block-based applications to be stored on the same Snap Server volumes as file-based applications. Now one device handles all of your storage needs.
 - **Backup Enhancement** — Fast, disk-based Snap Servers are ideal locations for nearline backup. Snap Server 4200 increases backup efficiency to take maximum advantage of shrinking backup windows. Move data to a Snap Server and scan for viruses, take a Snapshot, and pass it to tape over a subnet without impacting the existing production servers. Alternatively, install your favorite backup agent or use NDMP to collect and
- **Consolidated File Storage** — Centralize and share large, frequently accessed files on a Snap Server to speed up application server performance.
 - **Enhanced Data Protection** — BakBone's NetVault WorkGroup Edition backup software is integrated into the GuardianOS for enterprise-class data protection; Snap Server 4500 is also compatible with Symantec's PowerQuest V2i Protector Server Edition backup and recovery system.
 - **Centralized Management** — Simple installation and browser-based management make Snap Servers ideal for remote sites with little or no IT support staff. Snap Server Manager software consolidates the management of multiple units into a single console.
 - **Desktop/Laptop Backup** — Every Snap Server 4200 includes an unlimited user license copy of Symantec's PowerQuest DataKeeper software for automating file backup and restore of Windows clients.
 - **Server Consolidation** — Snap Servers are a simple, cost-effective way to consolidate, yet still provide instant access to useful data that is no longer critical.



GuardianOS Specifications

Network Transport Protocols

- TCP/IP
- UDP/IP
- AppleTalk

Network File Protocols

- Microsoft Networks (CIFS/SMB)
- UNIX (NFS v2/3)
- Apple (AFP 2.0)
- Internet (HTTP 1.1)
- File Transport Protocol (FTP)

Network Block Protocols

iSCSI Target Support

- Snap Servers running GuardianOS v3 SP1 or higher

iSCSI Software Initiator Support

- Windows: Microsoft iSCSI Initiator v1.03, 1.04
- Solaris: Cisco SN 5400 Series iSCSI Driver v3.3.5
- Linux: UNH-iSCSI Initiator v1.5.3

iSCSI Hardware Initiator Support

- Intel PRO/1000T IP Storage Adapter v2.0, 2.1
- Alacritech SES1001 iSCSI HBA Adapter

Network Client Types

- Windows: 95, 98, Me, NT 4.0, 2000, 2003, XP
- Macintosh: OS 8.x, 9.x, 10.x
- UNIX: Solaris 7, 8, 9; HP-UX 11; AIX 4.3.3, 5.x
- Linux: Red Hat Linux 7.x, 8.x, 9.x

Server Emulation

- Windows 2000/2003
- Windows NT 4.0
- AppleShare 6.0
- NFS v2/3
- FTP

Automatic IP Address Assignment

- Supports DHCP for automatic assignment of IP address

Network Security

- CA eTrust Antivirus Software
- Microsoft Active Directory Service (ADS Member Server)
- Kerberos Authentication v5
- CHAP Authentication (iSCSI target level)
- Microsoft Lightweight Directory Access Protocol (LDAP v3 client)
- Windows NT Domain (member server)
- UNIX Network Information Service (NIS) Support
- File and Folder Access Control List (ACL) Security for Users and Groups
- Secure Sockets Layer (SSL) v2/128-bit Encryption
- Transport Layer Security (TLS) v1

System Management

- Browser-based User Interface for Remote Administration
- Snap Server Manager Client-based Setup Utility (platform-independent)
- SNMP (MIB II and Host Resource MIB)
- User Disk Space Quotas for Windows, Macintosh, and UNIX/Linux
- Group Disk Space Quotas for UNIX/Linux
- Environmental Monitoring
- Email Notification Alerts

RAID Options

The Snap Server 4200 can be configured for enhanced performance or maximum file protection. Options include:

- RAID 5 (drive striping with parity): For each array, the size of one drive is reserved for parity. Provides the best combination of performance and data protection.
- RAID 1 (drive mirroring): One or more drives duplicate one drive for maximum data protection.
- RAID 0 (drive striping): Large virtual drive with data striped across all drives of the array to provide maximum performance with no loss in usable capacity.
- Global hot spare support
- Instant Capacity Expansion (I.C.E.) logically groups RAIDs for dynamic online scalability

Data Protection

- Snapshots: Snapshot technology enables immediate or scheduled point-in-time images of the file system.
- Replication: Optional S2S v2 byte-level replication for nearline backup and recovery.
- Local Backup: Integrated with BakBone NetVault Workgroup Edition.
- Network Backup: Supports VERITAS NetBackup/Backup Exec, CA BrightStor ARCserve/Enterprise, Legato NetWorker, BakBone NetVault, and Microsoft Backup Software for Windows 95, 98, Me, NT, 2000, 2003, XP. Compatible with Dantz Retrospect for Macintosh.
- Windows Clients: Standard Symantec PowerQuest DataKeeper software (unlimited user license) included for backup of Windows clients. Compatible with Symantec PowerQuest V2i Protector Desktop Edition for image-based backup and restore of Windows clients.
- Windows Servers: Compatible with Symantec PowerQuest V2i Protector Server Edition for image-based backup and restore of Windows servers.
- UPS Support: APC brand UPS with Network Management Cards are supported for graceful system shutdown.

Worldwide Warranty

Snap Appliance hardware and software are backed by world-class service and support to protect your investment from downtime. With Snap Care™ services, you have complete peace of mind.

Standard services with the Snap Server 4200 include:

- Three-year limited hardware warranty

Optional Support Programs

- Bronze Software Maintenance Service
- Silver Next-Business-Day Onsite Service
- Gold Same-Day Onsite Service

Accessories

- Spare 4200 Hard Drive
- 512MB RAM
- Additional 1GB RAM
- Rackmount Slide Rail Kit
- Spare 4200 Power Supply
- Spare 4200 Fan Kit
- SCSI Card for Local Tape

Snap Server 4200 Specifications

Physical

- Width 16.8 in (426.7 mm)
- Height 1.75 in (44.45 mm), 1U
- Depth 23.75 in (603.3 mm)
- Weight 28.0 lbs (12.7 kg)

Agency Certifications

- UL, cUL, CE, FCC Class A, C-Tick, Nemko, TuV, BSMI

Processor

- 2.0GHz Celeron with 128KB L2 Cache and 400MHz Front-side System Bus

Memory

- 3 DIMM Sockets Supporting up to 3GB DDR ECC RAM
- 256MB DDR ECC RAM Standard

Drive Configuration

- 4 Hot-swappable ATA Drives
- Pre-configured as RAID 5 Array (approximately 3 drives worth of usable capacity)

Network Interface

- Dual-Gigabit Ethernet Ports (autosensing 10/100/1000Base-T, RJ-45 network connections)
- Support for Stand-alone, Failover, and Load-balancing Modes

Local Backup Interface

- Ultra2 SCSI 68-pin VHDCI (optional)

Power

- Power Supply: Single 250W supply
- Power Rating: 250W 100-240 VAC, 50-60Hz, autosensing
- Input Current: 2.7A (RMS) for 115VAC, 1.4A (RMS) for 230VAC
- Power Consumption: 310W (steady state), 333W (maximum)
- Heat Dissipation: 1057 BTUs/hr

Environmental Limits, Operating

- Temperature: 50° F to 95° F, (10° C to 35° C)
- Non-condensing Humidity: 20% to 80%
- Vibration: 0.10G at 10-300Hz random for up to 120 minutes
- Shock: 6 pulses of 33G for up to 2ms
- Altitude: 0 ft to 10,000 ft (0 m to 3,048 m)

Environmental Limits, Non-operating

- Temperature 14° F to 149° F, (-10° C to 60° C)
- Non-condensing Humidity: 5% to 95%
- Vibration: 2G at 5-500Hz for up to 90 minutes
- Altitude: 0 ft to 35,000 ft (0 m to 10,668 m)



Snap Appliance, Inc.
125 S. Market St.
San Jose, CA 95113
888-343-SNAP (7627)
International: 408-795-3600