

Snap Server™ 15000

KEY FEATURES:

*Unified Storage
Architecture*

*Industry Standard
iSCSI Support*

Scalable from 5TB to 29TB

*Instant Capacity
Expansion™ (I.C.E.)*

Snapshot Technology

*Integrated CA eTrust
Antivirus Software*

*Embedded BakBone
NetVault Software*

NDMP Support

Scalable Block and File Storage Solution for the Distributed Enterprise

As enterprises become more distributed and storage demands continue to explode, controlling multiple types of data across a broad range of applications has become increasingly complex. With traditional solutions, block data and file data must be stored on separate servers and managed independently. The ideal solution would allow block and file data to be stored on the same server to consolidate data management.

The Snap Server 15000 combines a scalable hardware platform with a complete software suite to deliver a flexible primary storage solution at tape storage costs. By leveraging the unified block and file architecture of the award-winning GuardianOS™, the Snap Server 15000 is the solution for consolidating disparate data to simplify storage management and significantly reduce Total Cost of Ownership (TCO).

Accelerated Backup

The continuous generation of large amounts of data by applications such as email has made traditional backup methods slow and impractical. Backing up directly to the Snap Server 15000 and then archiving the data to tape significantly reduces the backup time and provides rapid restores. The native Snapshot technology embedded in the GuardianOS provides consistent, point-in-time incremental backups which can be stored online to further reduce tape media costs. Integrated BakBone NetVault software, backup agent support for VERITAS, CA and Legato, and future Network Data Management Protocol (NDMP) support provide the ultimate backup flexibility.



Storage Consolidation

Consolidating storage allows enterprises to do more with less. By offering simultaneous block and file storage on a single device, the Snap Server 15000 eliminates the need for disparate storage pools, simplifies data management, consolidates storage resources, and maximizes storage dollars. Instant Capacity Expansion™ (I.C.E.) enables on-the-fly scalability and provisioning to seamlessly grow storage resources to meet changing needs.

Nearline Storage

Data growth and regulatory compliance are requiring an increasing amount of data to be stored on rapid access, disk-based storage instead of tape and optical storage. The challenge is finding the performance of primary storage at the cost of archival storage. The Snap Server 15000 offers compelling price/performance for storing large amounts of data on fast, disk-based media.

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 15000 include:

- Three-year limited hardware warranty
- One-year Snap Care Next-Business-Day Onsite Service (NBD)
- One-year Bronze Software Maintenance Service

Optional Support Programs

- Bronze Software Maintenance Service (three-year)
- Silver Next-Business-Day Onsite Service (three-year)
- Gold Same-Day Onsite Service (one-year, three-year)

Accessories

- Fibre Channel HBA
- Spare 15000 SCSI Card
- Spare 15000 Hard Drive
- Additional 1GB RAM
- Rackmount Slide Rail Kit
- Spare 15000 Power Supply
- Spare 15000 Fan Kit

Snap Disk 30

- SD 30 expansion array
- Spare SD 30 Power Supply
- Spare SD 30 Cable Set
- Spare SD 30 Controller
- Spare SD 30 Drive

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) v2/3 128-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 15000 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.
- 24 drives maximum per RAID
- Global hot spare support
- Instant Capacity Expansion (I.C.E.) logically groups RAIDs for dynamic online scalability
- 16TB maximum per volume

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 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 DataKeeper software (unlimited user license) included for backup of Windows clients. Compatible with Symantec V2i Protector Desktop Edition for image-based backup and restore of Windows clients.
- Windows Servers: Compatible with Symantec 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.



Snap Server 15000 Controller 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 lbs. (12.7 kg)

Agency Certifications

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

Processor

- 3.06GHz Pentium 4 with 512KB L2 Cache and 533 MHz Front-side System Bus

Memory

- 2GB DDR ECC RAM Standard
- Three (3) DIMM sockets support up to 3GB DDR ECC RAM

Drive Configuration

- Four (4) 250GB hot-swappable ATA drives with 1TB raw capacity
- Pre-configured as a RAID 5 array (725GB usable capacity)

Network Interface

- Dual-Gigabit Ethernet ports (autosensing 10/100/1000Base-T, dual RJ-45 network connectors)
- Support for Stand-alone, Failover, and Load-balancing modes

Expansion Array Interface

- Single port Fibre Channel Host Bus Adapter (autonegotiating 1Gbps/2Gbps)

Local Backup Interface

- Ultra160 SCSI 68-pin VHDCI

Power

- Power Supplies: Single 250 W
- Power Rating: 250W 100-240 VAC, 50-60Hz, autosensing
- Input Current: 2.7A (RMS) for 115 VAC, 1.4A (RMS) for 230 VAC

- Power Consumption: 310W (steady state), 333WW (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: .10G at 10-300 Hz random for up to 120 minutes
- Shock: 6 pulses of 33G for up to 2 ms
- 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 Disk 30SA Expansion Array Specifications

Physical

- Width: 16.5 in. (419 mm)
- Height: 5.25 in. (133.3 mm), 3U
- Depth: 22.5 in. (571 mm)
- Weight: 88 lbs. (40 kg)

Agency Certifications

- UL, cUL, CE, FCC Class A, Nemko, TuV

Controller

- Single bridge controller
- 1 X 1 configuration

Controller Memory

- 128MB fixed cache

Controller Interface

- Single optical Fibre Channel connector
- Single copper Fibre Channel connector

Drive Configuration

- Sixteen (16) 250GB hot-swappable Serial-ATA drives with 4TB raw capacity
- Shipped as individual independent disks (JBOD)

Network Connection

- Fibre channel connection to Snap Server 15000 only; no direct network connection

Power

- Power Supplies: Dual 450 W
- Power Rating: 450W 110-240 VAC, 50-60 Hz, autosensing
- Input Current: 4.0A (RMS) for 115 VAC, 2.0A (RMS) for 230 VAC
- Power Consumption: 415W (steady state); 575W (maximum)

Heat Dissipation

- 1416 BTUs/hr

Environmental Limits, Operating

- Temperature: 41° F to 104° F (5° C to 40° C)
- Non-condensing Humidity: 8% to 80%
- Vibration: .21G at 5-500Hz random for up to 120 minutes
- Shock: 6 pulses of 5G for up to 10 ms
- Altitude: 0 ft to 6,998 ft (0 m to 2,133 m)

Environmental Limits, Non-operating

- Temperature: 33.8° F to 122° F (1° C to 50° C)
- Non-condensing Humidity: 8% to 80%
- Vibration: 1.04G at 2-200Hz for up to 90 minutes
- Shock: 6 pulses of 30G for up to 10 ms
- Altitude: -3280 ft to 131,232 ft (-1000 m to 40,000 m)

Operating Acoustics

- < 58 dB LpA at 68° F (20° C)



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