

Adaptec® Snap Server™ 550



A new standard in storage performance, capacity, and cost-effectiveness

The Adaptec Snap Server 550 changes the way “mid-range” storage is defined with performance that, until now, has only been available in much larger, much more expensive solutions. With easy installation and operation, scalability to 43.2TB, an integrated suite of data protection software, and end to end Serial Attached SCSI (SAS) performance and reliability, the Snap Server 550 is an ideal choice for mission-critical storage for small and medium business.

Best-in-class performance

The Snap Server 550 is built on a 64-bit system architecture with AMD Opteron™ technology and 1GB of memory for extremely fast throughput. It provides the best random data access in its price range. With SAS disk drives, no other 1U storage server can touch its performance.

Availability

The Snap Server 550 integrates availability features rarely found at this price point, including Ethernet teaming failover, (combining two Ethernet ports on a single address, which allows a path to fail without taking down the network), hot-swappable drives, and the ability to boot from any drive. Another rarely found feature is support for both four drives and dual power supplies in a 1U system.

Extreme scalability

The Snap Server 550 easily grows as your data grows. Start with 1.2TB, and as needs change, add up to seven Adaptec SANbloc S50 JBOD arrays to a maximum of 43.2TB. With Instant Capacity Expansion (I.C.E.) the new capacity is instantly available, without the traditional RAID reconfiguration downtime.

Block and file data storage

iSCSI target support built into the latest version of the award-winning GuardianOS platform allows you to store database, email, and other block data on the same server where you store file data. GuardianOS also provides automatic cross-platform file sharing, Unicode support, global hot spare support, and enhanced quota management.

Integrated data protection

The Snap Server 550 includes a complete suite of data protection software. It integrates a Workgroup Edition of BakBone NetVault Server, which includes a free upgrade to a 500GB Virtual Tape Library; CA eTrust Antivirus Software, and support for third-party backup agents. Optional Snap Enterprise Data Replicator software family provides advanced data protection, movement, and management for any business, while the optional S2S Synchronization v2 software provides basic replication. Optional StorAssure Personal Edition software provides automated, easy-to-use, client backup for desktop and laptop systems.

Centralized management

Simple installation and browser-based management make Snap Servers ideal for sites with little or no IT support staff. Snap Server Manager software consolidates the management of multiple units into a single console.

Product Highlights

- Best-in class price/performance
- 1.2TB capacity, scales to 43.2TB using Adaptec SANbloc S50 JBODs
- Instant Capacity Expansion™ (I.C.E.)
- Cross-platform support right out of the box
- Unified block and file support
- Hot-swappable disk drives
- Integrated CA eTrust Antivirus software
- Active Directory Service (ADS) Integration
- Integrated BakBone NetVault Software with an upgrade to a 500GB Virtual Tape Library
- Backup agent and NDMP agent support
- Snapshot technology
- Optional Snap EDR enterprise-class data replication, management, and protection
- Optional S2S Synchronization and StorAssure Personal Edition software

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Specifications

GuardianOS Specifications

Network Transport Protocols

- TCP/IP
- UDP/IP
- AppleTalk

Network File Protocols

- Microsoft Networks (CIFS/SMB)
- Linux/UNIX (NFS v2/3 over TCP & UDP)
- Apple (AFP v2/v3)
- Web (HTTP 1.1/HTTPS)
- File Transport Protocol (FTP)

Network Block Protocols iSCSI Target Support

Supports qualified iSCSI software and hardware initiators (see details below).

Supports Internet Storage Name Services (iSNS). Microsoft iSNS v3.0 Server has been qualified.

iSCSI Software Initiator Support

- Windows: Microsoft iSCSI Initiator v1.03, v1.04, v1.05, v1.06, v2.0
- Solaris: Cisco SN 5400 Series iSCSI Driver v3.3.5
- Linux: UNH-iSCSI Initiator v1.5.3
- UNIX: HP-UX 11.0
- NetWare: NetWare Initiator 6.5 SP1

iSCSI Hardware Initiator Support

- Adaptec 7211C (copper) HBA Intel PRO/1000T IP Storage Adapter v2.0, 2.1
- Alacritech SES1001 iSCSI Adapter

Network Client Types

- Windows: 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
- FTP

Server Emulation

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

Automatic IP Address Assignment

Supports DHCP for automatic assignment of IP address

Network Security

- Microsoft Active Directory Service (ADS Member Server)
- Kerberos Authentication v5
- Windows NT Domain (member server)
- File and Folder Access Control List (ACL) Security for Users and Groups
- UNIX Network Information Service (NIS) Support
- UID/GID mapping between NFS & CIFS
- Secure Sockets Layer (SSL) v2/v3 128-bit Encryption
- Transport Layer Security (TLS) v1
- CHAP Authentication (iSCSI target level)

System Management

- CA eTrust Antivirus Software
- 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 NIS Groups
- Environmental Monitoring
- Email Notification Alerts
- Network Time Protocol Support

RAID Options

The Snap Server 550 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 RAID's for dynamic online scalability.
- RAID 1/5 background scanner constantly monitors for disk media errors and if it's possible to repair the error, automatically rewrites the "marginal" block.

Data Protection

- Snapshots: Snapshot technology enables immediate or scheduled point-in-time images of the file system.
- Enterprise-Class Replication: Optional Snap EDR simplifies cross-platform management and protection of distributed data.
- Replication: Optional S2S Synchronization v2 for Snap Server data availability.
- Local Backup: Integrated BakBone Netvault WorkGroup Edition.
- Network Backup: Includes an upgrade to a 500GB VTL for disk to disk backup. Supports VERITAS NetBackup/Backup Exec, CA BrightStor ARCserve/Enterprise, Legato NetWorker, BakBone Netvault, and Microsoft Backup Software for Windows 98, Me, NT, 2000, 2003, XP. Compatible with Dantz Retrospect for Macintosh.
- UPS Support: APC brand UPS with Network Management Cards are supported for graceful system shutdown.

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Specifications

<p>Snap Server 550 Specifications</p> <p>Physical</p> <ul style="list-style-type: none"> • Width: 17.2 in (436.8 mm) • Height: 1.75 in (44.45 mm) 1U • Depth: 27.0 in (685.8 mm) • Weight: 47.0 lbs (21.3 kg) <p>Mounting</p> <p>Custom 19" rackmount slide rails included</p> <p>Agency Certifications</p> <p>UL, cUL, CE, FCC Class A, Nemko, TuV</p> <p>Processor</p> <p>AMD Opteron processor, with 1MB L2 cache and 1000MHz HyperTransport™</p> <p>Memory</p> <ul style="list-style-type: none"> • 1GB DDR 1 400 ECC RAM standard • 4 DIMM sockets supporting up to 4GB DDR 1 400 ECC RAM <p>Drive Configuration</p> <p>4 x 300GB 10K RPM hot-swappable SAS drives (1.2TB raw capacity)</p> <p>Standard LCD Display</p> <p>Backlit, 2 line, 16 character with system ID, IP address</p> <p>Network Interface</p> <ul style="list-style-type: none"> • Dual-Gigabit Ethernet Ports (autosensing 10/100/1000Base-T, dual RJ-45 network connectors) • Support for stand-alone, failover, and loadbalancing modes 	<p>Expansion Array Interface</p> <ul style="list-style-type: none"> • Includes Serial Attached SCSI host bus adapter for expansion • Supports up to 7 Adaptec SANbloc S50 JBOD expansion arrays <p>PCI-X Expansion Card Support</p> <p>Supports an additional full-height PCI-X expansion card</p> <p>Local Backup Interface</p> <p>Ultra320 SCSI 68-pin VHDCI (integrated)</p> <p>Power</p> <ul style="list-style-type: none"> • Power Supply: Dual hot-swap 400W supply (standard) • Power Rating: 400W 100-240 VAC, 50-60Hz, autosensing • Input Current: 3.4A peak for 115VAC, 1.7A peak for 230VAC • Power Consumption: 390W peak • Heat Dissipation: 1057 BTUs/hr avg. <p>Environmental Limits, Operating</p> <ul style="list-style-type: none"> • Temperature: 50° F to 95° F, (10° C to 35° C) • Non-Condensing Humidity: 20% to 80% • Vibration: 0.1G 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) <p>Environmental Limits, Non-operating</p> <ul style="list-style-type: none"> • Temperature 14° F to 149° F, (-10° C to 65° 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) 	<p>Worldwide Warranty</p> <p>Snap Server hardware and software are backed by world-class service and support to protect your investment from downtime. With Adaptec services, you have complete peace of mind. Standard services with the Snap Server include:</p> <ul style="list-style-type: none"> • Three-year limited hardware warranty • 90-day software support <p>Optional Support Programs</p> <p>Today's mission-critical environments require maximum uptime and rapid resolution should problems arise. Adaptec provides a comprehensive suite of service and support upgrade options created to help you protect your business operations. Providing additional levels of technical service and support, Adaptec services extends the standard protection packages already included with all Adaptec products, including the market-leading Snap Server products. From extending your warranty phone support to complete onsite support for same day recovery, you can select the level of support that best fits your business and resource requirements.</p> <p>For more information about Adaptec services, please contact your distributor. Or, call Adaptec at 1-800-442-7274 or visit us online at: http://www.adaptec.com/target/servicereg.html</p>
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