

Snap Server™ 4200



High-Performance, High-Value Departmental Storage

With more than 150,000 servers shipped and more than 60 industry awards, the Adaptec is the undisputed leader in Network Attached Storage. Now that leadership is being extended to the IP SAN market, as well, with the affordable Adaptec 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. 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 incorporate Snap Server data into the existing backup scheme. As an image archive, a

backup staging point, or compliance management location, Snap Servers can be faster and more efficient than tape.

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 4200 is also compatible with Symantec's 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 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.

Key Features

- 320GB or 640GB Capacity
- Scalable to 2.6TB using Snap Disk 10 expansion arrays
- 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 V2i Protector Software
- Optional S2S v2 Byte-Level Replication Software
- Optional Snap EDR Enterprise-Class Data Replication, Management, and Protection

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GuardianOS Specifications

<p>Network Transport Protocols</p> <ul style="list-style-type: none"> • TCP/IP • UDP/IP • AppleTalk <p>Network File Protocols</p> <ul style="list-style-type: none"> • Microsoft Networks (CIFS/SMB) • UNIX (NFS v2/3) • Apple (AFP 2.0) • Internet (HTTP 1.1) • File Transport Protocol (FTP) <p>Network Block Protocols</p> <p>iSCSI Target Support</p> <ul style="list-style-type: none"> • Snap Servers running GuardianOS v3 SP1 or higher <p>iSCSI Software Initiator Support</p> <ul style="list-style-type: none"> • 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 <p>iSCSI Hardware Initiator Support</p> <ul style="list-style-type: none"> • Intel PRO/1000T IP Storage Adapter v2.0, 2.1 • Alacritech SES1001 iSCSI HBA Adapter <p>Network Client Types</p> <ul style="list-style-type: none"> • 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 <p>Server Emulation</p> <ul style="list-style-type: none"> • Windows 2000/2003 • Windows NT 4.0 • AppleShare 6.0 • NFS v2/3 • FTP <p>Automatic IP Address Assignment</p> <ul style="list-style-type: none"> • Supports DHCP for automatic assignment of IP address 	<p>Network Security</p> <ul style="list-style-type: none"> • 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 <p>System Management</p> <ul style="list-style-type: none"> • 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 <p>RAID Options</p> <p>The Snap Server 4200 can be configured for enhanced performance or maximum file protection. Options include:</p> <ul style="list-style-type: none"> • 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 	<p>Data Protection</p> <ul style="list-style-type: none"> • 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. • Enterprise-Class Replication: Optional Snap EDR simplifies cross-platform management and protection of distributed data. • 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 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 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.
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<p>Physical</p> <ul style="list-style-type: none"> • 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) <p>Agency Certifications</p> <ul style="list-style-type: none"> • UL, cUL, CE, FCC Class A, C-Tick, Nemko, TuV, BSMI <p>Processor</p> <ul style="list-style-type: none"> • 2.4GHz Celeron with 128KB L2 Cache and 400MHz Front-side System Bus <p>Memory</p> <ul style="list-style-type: none"> • 3 DIMM Sockets Supporting up to 3GB DDR ECC RAM • 256MB DDR ECC RAM Standard <p>Drive Configuration</p> <ul style="list-style-type: none"> • 4 Hot-swappable ATA Drives • Pre-configured as RAID 5 Array (approximately 3 drives worth of usable capacity) 	<p>Network Interface</p> <ul style="list-style-type: none"> • Dual-Gigabit Ethernet Ports (autosensing 10/100/1000Base-T, RJ-45 network connections) • Support for Stand-alone, Failover, and Load-balancing Modes <p>Local Backup Interface</p> <ul style="list-style-type: none"> • Ultra2 SCSI 68-pin VHDCI (optional) <p>Power</p> <ul style="list-style-type: none"> • Power Supply: Single 250W supply • Power Rating: 250W 100-240 VAC, 50-60Hz, autosensing • Input Current: 1.8A (RMS) for 115VAC, 1.4A (RMS) for 230VAC • Power Consumption: 207W (steady state), 240W (maximum) • Heat Dissipation: 706 BTUs/hr 	<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: 0.10G 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) <p>Environmental Limits, Non-Operating</p> <ul style="list-style-type: none"> • 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)
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Worldwide Warranty

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 4200 include:

- Three-year limited hardware warranty
- 90-day software support

Optional Support Programs

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.

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>

Models	Part Number
Snap Server 4200 320GB	5325301895
Snap Server 4200 640GB	5325301896
Accessories	
S2S (Server-to-Server) Synchronization v2	5325301829
Snap EDR (Enterprise Data Replicator)	5325301861
Spare 4200 Hard Drive	5325301651
512MB RAM (required for SD 10 expansion)	5325301590
Additional 1GB RAM	5325301591
Rackmount Slide Rail Kit	5325301585
Spare 4200 Power Supply	5325301582
Spare 4200 Fan Kit	5325301836
SCSI Card for Local Tape	5325301589
Snap Disk 10	
SD 10 1TB	5325301627
SD 10 Expansion Kit (includes 512MB module, expansion card)	5325301933
SD 10 Controller Card	5325301642
Spare Cable	5325301635

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