

Sun StorageTek™ 5320 NAS Gateway System

Powerful NAS Gateway System Keeps Up with Demanding Business Requirements



Highlights

- Enterprise-class features, such as: file system journaling, checkpointing, remote mirroring, antivirus, clustering, and system redundancy help keep businesses running
- Multiprotocol file sharing integrates seamlessly and securely supports data sharing between UNIX® and Windows clients
- System provides purpose-built, enterprise-class, dedicated file-sharing services to storage area networks for a unified block and file storage consolidation solution
- Integrated real-time antivirus scanning feature protects data from computer viruses
- iSCSI target support enables block-level data access over an IP-based Ethernet network
- Sun StorageTek™ Compliance Archiving Software (advisory enforcement only) allows users to meet less stringent regulatory requirements and business governance needs
- Sun StorageTek™ 5320 NAS Gateway system is also available in a clustered version
- Available as a Sun™ System Pack which combines the product with services in one optimized offering

> The Sun StorageTek™ 5320 NAS Gateway system provides purpose-built, enterprise-class, dedicated file-sharing services to storage area networks for a unified block- and-file storage consolidation solution. The Sun StorageTek 5320 NAS Gateway system delivers the benefits of storage consolidation and centralized backup to multiprotocol IT environments. With support for both UNIX® and Windows platforms, the system simplifies file sharing between disparate environments. By providing file-sharing services with a StorageTek 5320 NAS Gateway system, standard block-level services of the storage area network are not impacted. The end result is the best of file-sharing services, with the best of block-level services, and the benefit of consolidated storage and data within a single storage platform.

The Sun StorageTek 5320 NAS Gateway system combines advanced enterprise-class features to help protect your data and keep your business running smoothly. It features file system journaling, checkpointing, remote monitoring, iSCSI, antivirus, and optional clustering, to deliver very high levels of availability and performance in almost any open environment. Set up as a single head or as a dual clustered NAS server configuration, the system provides quick deployment, simple manageability, seamless integration, and flexible policy-based services. In addition, it's easy to operate and effortless to manage, and it can be set up in about 15 minutes, thanks to its highly intuitive wizard. The optional Sun StorageTek™ Compliance Archiving Software, with advisory enforcement only, enables the Sun StorageTek NAS Gateway system to store regulated and reference information to meet less stringent regulatory and business compliance requirements. It allows a trusted administrator to do certain activities, including reducing the retention time of a file and removing write-once, read-many (WORM) protected files. These events are captured in

the compliance audit log. To provide for disaster recovery situations over distance, the optional Sun StorageTek™ File Replicator enables remote data mirroring between Sun StorageTek NAS appliances and Gateway systems.

Added value and cost savings with Sun™ System Packs

The Sun StorageTek 5320 NAS Gateway system is available as a Sun™ System Pack, which combines the product with services in one optimized offering. Sun System Packs for storage go beyond the traditional warranty and include 24-hour technical support by phone, extended on-site coverage hours, Sun Vendor Integration Platform (SunVIP™) cross-vendor/platform interoperability problem management, and access to online learning resources to help accelerate performance from day one. In short, users can get the flexible storage they want and the services they need at a price that's less than purchasing the hardware and services separately—and in some cases, less than the storage product warranty.

Engage the storage experts

Sun StorageTek service professionals help address storage challenges by delivering integrated services and solutions that optimize and manage storage performance. Sun's recognized, world-class service and customer care provide the confidence that technology investments are protected and that business will be responsive to change. Sun can help

pinpoint opportunities to reduce costs, mitigate business risk, and better leverage information assets. Sun's consulting and managed services offer clear and simple choices in solutions that address regulatory concerns, complex storage growth, resource management, and scalability challenges. Covering over 125 countries, Sun's storage

service professionals, can help businesses gain and sustain measurable results with the reliability and flexibility that they require.

Learn More

For additional information on the Sun StorageTek 5320 NAS Gateway System, go to: sun.com/storagetek/nas

Sun StorageTek™ 5320 NAS Gateway System Specifications

Processors and memory

CPU	One 2.6 GHz AMD Opteron™ processor with one MB cache
Memory	Four GB DDR1/400 ECC registered DRAM

Standard/integrated interfaces

Network	Four standard 10/100/1000BaseT Ethernet ports. Up to three optional dual-port 10/100/1000BaseT Ethernet NICs
SCSI	One optional Ultra 320 SCSI multimode (SE/LVD)
USB	Two USB ports (bottom for USB connection, top for factory use only)
Expansion bus	Five internal PCI-X 64-bit (three available for expansion)
Fibre Channel	Two standard dual-port two Gb/s FC HBA. One option for tape backup

Software/operating system

Operating system	Sun StorageTek™ 5000 NAS OS—storage-optimized operating system
File system	64-bit journaling file system, checkpoints, online extensible/expandable capacity, NTFS streams support, quotas: user, group, and directory tree, Unicode
File access protocols	CIFS/SMB, NetBIOS, NFS v2 and v3, FTP
Block access protocol	iSCSI target
Directory and name services	ADS (LDAP, Kerberos v5), NT 4.0 multiple master domains (MMD), DNS, WINS, NIS, NIS+, local files
Network services	DHCP, NTP, RDATE, network status monitor
Access control	Windows 2003, 2000, and NT 4.0 access control lists and access tokens, UNIX credentials and permissions, credential mapping, directory tree quotas, user and group quotas, checkpoints, SMB/CIFS shares, UNIX exports, approve lists, trusted host lists, netgroups, cross-platform file locking (limitations), cross-platform authentication
Supported clients	
CIFS, FTP	Microsoft Windows NT 4.0/2000/2003/XP
NFS, FTP	Sun Solaris™ 2.6, 7, 8, 9, 10; Sun Solaris x86 9, 10; IBM AIX; HP HP-UX; Red Hat Enterprise Linux; SUSE Linux ES
iSCSI	Solaris™10 iSCSI Software Initiator; Microsoft iSCSI Software Initiator; Red Hat Enterprise Linux 4 Update 4 software iSCSI initiator; Qlogic QLA4052C iSCSI initiator for Windows
Remote management	SNMP, Remote Syslog
System administration	Web (HTTP/based on Java™ platform) GUI, telnet, Rlogin, Rsh, SSH, console command line interface (CLI)
Mail services	SMTP

System monitoring	Disk subsystem via SCSI enclosure services (SES); fans, power supplies, temperature, voltages via IPMI protocol; UPS; network monitor
Tape backup	NDMP v3 and v4, backup with full Unicode, remote backup configuration support with NDMP
Setup and configuration	Web-based GUI
RAID manager	SAN array management utility
Antivirus engine supported	Must license separately from their respective vendors <ul style="list-style-type: none"> • Symantec AntiVirus for Network Attached Storage • Computer Associates eTrust Antivirus scan engine • Trend Micro Interscan Web Security Suite AntiVirus engine

NAS head enclosure

Dimensions	H: 3.45 in. (8.76 cm); W: 17.52 in. (44.5 cm); D: 25.2 in. (64 cm)
Weight	52.1 lbs (23.7 kg)
Enclosure	Fits into a standard 19-inch rack
AC power	Voltage range: 90-264 V AC; frequency: 47-63 Hz 4.0 A max. @ 115 V AC; 2.0 A max. @ 230 V AC
Safety regulations	IEC60950, UL/CSA60950, EN60950, CB Report with all national differences
RFI/EMI regulations	Class A, FCC CFR47 Part 15, ICES-003, EN55022, EN300 386 v1.3.2
Immunity regulations	EN55024, EN300 386 v1.3.2
Certifications: safety	Safety: cULus, CE, GOST R, S-Mark (CCC exempt as "Storage" product). EMC: Class A, FCC, VCCI, C-Tick, MIC, BSMI, GOST (CCC exempt as "storage" product)
Hazardous substance regulations	Complies with the Restriction of Hazardous Substances (RoHS) directive 2002/95/EC

Mass Storage 'StorEdge 5320 Storage (Non-RoHS)'

External SAN subsystem	Sun StorageTek™ 6130, 6140, 6540, 6920
Sun SAN arrays	Sun StorageTek™ 9970, 9980, 9985, 9990 Sun StorageTek™ FlexLine 210, 240, 280, 380
SAN connectivity—FC switches	Sun StorageTek™ 2 GB FC Switch-8, Switch-16, Switch-64 Brocade SilkWorm 200E, 3250, 3850, 3900, 4100, 24000, 48000 Brocade M6064, M6164, M4400, M4500 QLogic 5200, 5602 Cisco MDS 9216, 9509

Note: Refer to the product Web page for the latest list of supported iSCSI initiators, antivirus engines, external SAN subsystems, and FC switches.