

Sun StorageTek™ 5220 NAS Appliance

Simplified File Sharing with Rapid Deployment and Easy Management



> The Sun StorageTek™ 5220 NAS appliance is an ideal storage solution for small- to medium-sized businesses, as well as for departments, workgroups, or remote offices within large organizations. This very affordable solution is easy to use, nearly effortless to manage, and it can be set up in about 15 minutes, thanks to an intuitive GUI-based installation wizard. With support for UNIX®, Linux, and Microsoft Windows clients, the Sun StorageTek 5220 NAS appliance simplifies file sharing between disparate platforms and offers advanced business continuity functions to help protect data and keep businesses running smoothly.

The feature-rich Sun StorageTek 5220 NAS appliance provides flexible policy-based services, integrated file-system journaling, checkpointing, antivirus scanning, and options for regulatory compliance and remote mirroring. High-performance SATA back-end RAID architecture helps ensure that application service levels are met. And with the ability to scale easily to 24 terabytes of raw SATA/RAID-protected storage, the Sun StorageTek 5220 NAS appliance can integrate seamlessly into current environments and grow with businesses.

Highlights

- Achieve seamless integration and support secure data sharing between UNIX® and Windows clients with a multiprotocol appliance
- Protect computers from viruses with an integrated, real-time antivirus scanning feature that works in conjunction with an approved antivirus server
- Lower costs and simplify access with iSCSI target support, which enables block-level data access over an IP-based Ethernet network
- Meet stringent regulations and media retention and protection requirements with optional Sun StorageTek™ Compliance Archiving software
- Receive advanced data protection and business continuity with optional Sun StorageTek™ File Replicator software, which provides remote data mirroring among Sun StorageTek NAS appliances

Enhance compliance and disaster recovery efforts

Optional StorageTek Compliance Archiving Software enables the Sun StorageTek 5220 NAS appliance to store and protect regulated and reference information, helping reduce legal risk and support regulatory and business compliance, including SEC 17a-4 requirements. Write-once, read-many (WORM) functionality, which allows the specification of per-file retention periods, and the system's administrative lockdown facilities combine to ensure that files marked as WORM cannot be inadvertently removed prior to their retention period. For disaster recovery situations over distance, optional Sun StorageTek File Replicator software provides remote data mirroring across Sun StorageTek NAS systems. In the event of a source system failure or disaster, the mirrored file system on the target appliance can be promoted to continue delivering data during the failure.

Help is available, any time

Sun StorageTek service professionals can help address storage challenges by delivering integrated services and solutions that optimize and manage storage performance over the life of user data. Sun's recognized world-class service and customer care provide the confidence that users' technology investments are protected and that their businesses 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. Offering support in over 125 countries, Sun's dedicated storage service professionals can help users gain and sustain measurable results with the necessary reliability and flexibility.

Sun StorageTek™ 5220 NAS Appliance Specifications

Processors and memory

CPU	One 2.2-GHz AMD Opteron™ processor
Memory	Two-GB DDR1/400 ECC-registered DRAM

Standard/integrated interfaces

Network	Four standard 10/100/1000BaseT Ethernet ports; one optional dual-port (optical or copper) Gb Ethernet NIC
SCSI	One optional Ultra320 SCSI multimode (SE/LVD)
USB	Two USB ports (bottom for USB connection, top for factory use only)
Expansion bus	Two internal PCI-X 64-bit slots (one available for expansion)
Fibre Channel	One standard dual-port 2-Gb/sec FC HBA: one port for RAID connectivity and another 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 CIFS/SMB, NetBIOS, NFS v2 and v3, FTP
File access protocols	iSCSI target
Block access protocol	ADS (LDAP, Kerberos v5), NT 4.0 multiple master domains (MMD), DNS, WINS, NIS, NIS+, local files
Directory and name services	DHCP, NTP, RDATE, network status monitor
Network services	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, approved lists, trusted host lists, netgroups, cross-platform filelocking (limitations), cross-platform authentication
Access control	

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	Integrated through Web-based GUI
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: 1.72 in. (4.38 cm); W: 17.52 in. (44.5 cm); D: 25.2 in. (64.0 cm)
Weight	41.1 lbs (18.6 kg)
Enclosure	Fits into a standard 19-inch rack
AC power	Voltage range: 90-264 V AC; frequency: 47-63 Hz 3.6 A max. @ 115 V AC; 1.8 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 'StorageTek 5220 Storage (RoHS-Compliant)'

External Disk	RAID Controller Unit (RCU): up to 16 x SATA HDDs Disk Expansion Unit (DEU): up to 16 x SATA HDDs
Disk drive capacity	250 GB, 500 GB SATA
Maximum expansion units	REV: 1 DEU: 2
Maximum capacity per enclosure	SATA: 8.0 TB (raw)/6.0 TB (usable, RAID 5 with hot spare)
Maximum system capacity	SATA: 24 TB (raw)/18 TB (usable, RAID 5 with hot spare)
Dimensions	RCU DEU
Height	5.1 in. (12.95 cm) 5.1 in. (12.95 cm)
Width	17.6 in. (44.7cm) 17.6 in. (44.7 cm)
Depth	22.5 in. (57.15 cm) 22.5 in. (57.15 cm)
Maximum weight	82 lbs (37.2 kg) 81 lbs (36.7 kg)
AC power	Voltage range: 90-264 V AC; frequency: 47-63 Hz CU 4.2 A max. @ 115 V AC; 2.1 A max. @ 230 V AC EU 4.1 A max. @ 115 V AC; 2.0 A max. @ 230 V AC
Hazardous substance regulations	Complies with the Restriction of Hazardous Substances (RoHS) directive, 2002/95/EC
Safety and emissions	EC 60950, EN 60950, UL 60950, FCC Part 15 (47CFR15B), CISPR 22 (EN55022-RF Radiated and Conducted Emissions), IEC 61000-3-2, IEC 61000-3-3
Immunity	CISPR 24 (EN55024), IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-11

Note: Refer to the product Web page for the latest list of supported iSCSI initiators and antivirus engines.

Learn More

For more information on the Sun Storagetek 5220 NAS Appliance, go to sun.com/storagetek/nas