

## Cisco NSS 300 Series Smart Storage Cisco Small Business



### Protect Business Data and Increase Your Peace of Mind with a High-Performance, Versatile Storage Solution

As in other small businesses, your company's electronic information is probably growing at a rapid rate. Protecting this data is important to business continuity, as well as to meeting any regulatory requirements that may apply to your business. A network-attached storage (NAS) device is the most efficient and manageable way to centralize, protect, and share information. When you know that your business-critical data is securely stored and easily accessible for business use, you enjoy greater peace of mind.

### Cisco NSS 300 Series Smart Storage

Cisco<sup>®</sup> NSS 300 Series Smart Storage is a series of 2-bay, 4-bay, and 6-bay desktop network storage solutions that combine class-leading performance with affordability and ease of use. High performance means shorter backup times and faster file sharing across multiple users. The devices are easy to set up, configure, and manage, with a simple, browser-based interface that helps save you time. Cisco Smart Storage is designed specifically for small businesses, with business-class features such as data encryption to protect critical data (Figure 1).

Further setting it apart from other storage solutions, Cisco Smart Storage features built-in and add-on applications that extend usage beyond storage, giving you more value for your money. And to protect your investment, we offer the Cisco Small Business Pro Service, an affordable, comprehensive service that provides peace-of-mind coverage.

**Figure 1.** Cisco NSS 300 Series Smart Storage



## Features and Benefits

### **High-performance system speeds backup and facilitates information sharing**

Powered by a dual-core Intel Atom processor, Cisco Smart Storage delivers class-leading performance. The fast, efficient backup allows more users to access Cisco Smart Storage simultaneously and enables you to schedule backups at convenient times for your business.

### **Built-in and add-on applications extend usage beyond storage**

Your Cisco Smart Storage comes with built-in applications and the ability to add new applications in the future. Built-in applications include a user-configurable web server with an integrated WordPress publishing platform that allows you to create and run blogs, forums, and internal websites from your Cisco Smart Storage device, and built-in syslog and RADIUS servers that help simplify user authentication and management of your entire network. Running applications like these on a Cisco Smart Storage device helps ensure that they are available at all times and can eliminate the need for additional devices on the network, enabling your business to be more efficient.

### **Security features safeguard your stored data from unauthorized access**

Cisco Smart Storage helps prevent unauthorized access to the device, and enables highly secure remote and web access. Advanced Encryption Standard (AES) 256-bit on-disk data encryption helps protect critical business data, even if the hard drives are stolen, a business-class feature most other storage solutions do not provide.

### **Simplified configuration and management saves time**

Cisco Smart Storage is easy to set up, configure, and manage. You can set up the device in minutes and configure it with a straightforward, browser-based interface. To save time on account setup, you can use user account information from your Windows Active Directory server, allowing employees to access Cisco Smart Storage with their existing login name and password.

### **Flexibility supports the way you work**

Cisco Smart Storage supports file sharing across Windows, Macintosh, and Linux platforms. Choose from multiple backup modes, including PC to Smart Storage using any Windows backup client, Mac to Smart Storage using Apple Time Machine, and server to Smart Storage or Smart Storage to Smart Storage using remote replication. You can also use Cisco Smart Storage as an iSCSI target for virtualized and clustered environments.

### **Reliable, high-availability design means worry-free operation**

Cisco Smart Storage offers Redundant Array of Independent Disks (RAID) 0, 1, 5, and 6 configurations, which helps safeguard your data, and a hot-swap design that allows you to replace a failed drive without turning off the device. You can upgrade a disk configuration to a higher RAID level, or move data to newly installed hard drives, while Cisco Smart Storage is running.

### **Energy-efficient operations save on operating costs and support green initiatives**

Cisco Smart Storage incorporates energy-saving features that save money and support energy conservation initiatives. You can schedule the device to power on and off according to your working hours and use the Wake on LAN feature to power on your Cisco Smart Storage device remotely. Conserve power with an Energy Star V rated power adapter and hard disk drives that spin down on inactivity. Integrated applications help save energy by reducing the number of network-based devices your small business needs.

## Product Specifications

Table 1 and 2 give the product specifications for Cisco NSS 300 Series Smart Storage.

**Table 1.** Device-Specific Information

Description	NSS322	NSS324	NS326
Max Number of Internal Hard Drives	2	4	6
Dimensions (H x W x D)	150 x 102 x 216 mm	177 x 180 x 235 mm	175 x 257x 235 mm
Net Weight	1.74 kg	3.65 kg	5.2 kg
Power Supply	External 84W	Internal 250W	Internal 250W
System Fan	1 x 7 cm	1 x 9 cm	2 x 9 cm
Disk Management	Single disk, JBOD, RAID 0/1	Single disk, JBOD, RAID 0/1/5/6/5+hot spare	Single disk, JBOD, RAID 0/1/5/6/5+hot spare/6+hot spare

**Table 2.** General Device Specifications

Description	Specification
<b>Hardware</b>	
CPU	Intel Atom D510 1.66GHz (Dual Core)
RAM	1GB DDR II
Flash	512MB
Internal Hard Drives	<ul style="list-style-type: none"> <li>Hot Swappable</li> <li>Supports 2.5" and 3.5" SATA drives</li> </ul>
Network	Dual Gigabit RJ-45 Ethernet
Ports	<ul style="list-style-type: none"> <li>5 USB 2.0</li> <li>2 eSATA</li> <li>1 VGA (recovery only)</li> </ul>
Status LEDs	Status, LAN, USB, eSATA, HDD
Buttons	Power, Reset, USB One Touch, LCD Select, LCD Enter
Power Supply	AC Input 100-240V, 50-60Hz, Energy Star V Rated
Operating Temp	0-40C
Operating Humidity	0-95% RH (non-condensing)
Lock	Kensington security slot
<b>Software</b>	
Operating System	Linux 2.6
Protocols	CIFS/SMB, AFP, NFS, FTP, FTPS (explicit), HTTP, HTTPS, Telnet, SSH, iSCSI, SNMP, SMTP, SMSC
File System	<ul style="list-style-type: none"> <li>Internal: EXT3, EXT4</li> <li>External EXT3, EXT4, NTFS, FAT32</li> </ul>
Networking	<ul style="list-style-type: none"> <li>TCP/IP IPv4 &amp; IPv6 Dual Stack</li> <li>Dual Gigabit Ethernet with Jumbo Frame</li> <li>Multi-IP Setting, Port Trunking, Failover, 802.3ad</li> <li>DHCP Client, DHCP Server</li> <li>UPnP &amp; Bonjour Discovery</li> </ul>
File Server (or File Sharing)	<ul style="list-style-type: none"> <li>Protocols: CIFS/SMB, AFP, NFS, FTP, FTPS, WebDAV, HTTP, HTTPS</li> <li>Web File Manager</li> </ul>
FTP Server	<ul style="list-style-type: none"> <li>FTP over SSL/TLS (explicit)</li> <li>Max. Concurrent connections 256</li> <li>FXP Supported</li> <li>Passive FTP Port Range Control</li> <li>FTP Bandwidth &amp; Connection Control</li> <li>Unicode Support</li> </ul>

Description	Specification
Backup Server	<ul style="list-style-type: none"> <li>• USB One Touch Copy</li> <li>• Apple Time Machine Support</li> <li>• Block-level remote replication</li> <li>• Rsync server &amp; client</li> <li>• Encrypted replication</li> <li>• External storage devices</li> </ul>
Security	<ul style="list-style-type: none"> <li>• AES 256-bit volume based data encryption</li> <li>• IP Filter</li> <li>• Network access protection with auto-blocking</li> <li>• HTTPS connection</li> <li>• FTP with SSL/TLS (explicit)</li> <li>• Encrypted remote replication (rsync over ssh)</li> <li>• Importable SSL certificate</li> <li>• Email and SMS alerts</li> </ul>
Disk Management	<ul style="list-style-type: none"> <li>• Online RAID capacity expansion</li> <li>• Online RAID Level Migration</li> <li>• HDD S.M.A.R.T.</li> <li>• Bad block scan</li> <li>• RAID Recovery</li> <li>• Bitmap Support</li> </ul>
iSCSI	<ul style="list-style-type: none"> <li>• iSCSI Target</li> <li>• Virtual Disk Drive (max 8)</li> <li>• Stack Chaining Master</li> </ul>
Server Virtualization & Clustering	<ul style="list-style-type: none"> <li>• Supports VMware</li> <li>• Supports Hyper-V</li> </ul>
Power Management	<ul style="list-style-type: none"> <li>• Wake on LAN</li> <li>• Scheduled power on/off (max 15 settings)</li> <li>• Automatic power on after power recovery</li> <li>• UPS Support</li> </ul>
Access Right Management	<ul style="list-style-type: none"> <li>• User Accounts (4096 max)</li> <li>• Groups (max 512)</li> <li>• Shares (max 512)</li> <li>• Batch user creation</li> <li>• Import user list</li> <li>• User quota</li> <li>• Supports Active Directory Authentication</li> </ul>
Administration	<ul style="list-style-type: none"> <li>• AJAX-based User Interface</li> <li>• HTTP/HTTPS connections</li> <li>• Email and SMS alerts</li> <li>• Smart Fan Control</li> <li>• Dynamic DNS (DDNS)</li> <li>• SNMP Traps (v2 &amp; v3)</li> <li>• UPS Support with SNMP &amp; USB</li> <li>• Resource Monitor</li> <li>• Network Recycle Bin for CIFS/SMB</li> <li>• Comprehensive Logs (Events &amp; Connections)</li> <li>• Real time online user list</li> <li>• Syslog Client</li> <li>• Backup &amp; restore system settings</li> <li>• LCD quick installation (NSS324/326 only)</li> <li>• Web Based Quick Configuration Wizard</li> <li>• CD Setup Wizard</li> <li>• Works with Cisco Small Business network tools and services</li> </ul>

Description	Specification
Web Server	<ul style="list-style-type: none"> <li>• HTTP/HTTPS connections</li> <li>• Supports WebDAV</li> <li>• importable SSL certificate</li> <li>• Integrated WordPress</li> </ul>
Network Applications	<ul style="list-style-type: none"> <li>• Syslog Server</li> <li>• RADIUS Server</li> <li>• Download Station: PC-less FTP &amp; HTTP downloads</li> </ul>
Media Applications	<ul style="list-style-type: none"> <li>• iTunes Server: Media Sharing, Smart Playlist</li> <li>• Multimedia Station: web based viewing, sharing</li> </ul>
Twonky UPnP Media Server	<ul style="list-style-type: none"> <li>• DLNA 1.5 Certified</li> <li>• Real time &amp; background photo transcoding</li> <li>• Supports UPnP &amp; DLNA Media players such as Game consoles (PlayStation3, PSP, Xbox 360), Media Adapters, Mobile Devices (e.g. iPhone/iPod Touch/iPad with UPnP/DLNA Application)</li> <li>• Supported formats: video (asf, flv, f1v, f4v, mp4, mpeg), audio (mp3, wav), picture (bmp, gif, jpg, png)</li> </ul>
PKG Add-on Applications	Support for PKG applications
Supported Operating System	Microsoft Windows 2000, XP, Vista (32/64 bit), Windows 7 (32/64 bit), Windows Server 2003/2008, Apple MAC OS X, Linux & Unix
Supported Web Browsers	Internet Explorer 6 or later, Firefox 3 or later, Safari 3 or later
Multilingual Support	English, French, Italian, German, Spanish, Japanese

## Ordering Information

Table 3 provides ordering information for Cisco NSS 300 Series Smart Storage.

**Table 3.** Ordering Information

Part Number	Description
NSS322D00-K9	NSS 322 2-Bay Smart Storage
NSS322D02-K9	NSS 322 2-Bay Smart Storage with two 1TB Hard Drives
NSS322D04-K9	NSS 322 2-Bay Smart Storage with two 2TB Hard Drives
NSS324D00-K9	NSS 324 4-Bay Smart Storage
NSS324D04-K9	NSS 324 4-Bay Smart Storage with four 1TB Hard Drives
NSS324D08-K9	NSS 324 4-Bay Smart Storage with four 2TB Hard Drives
NSS326D00-K9	NSS 326 6-Bay Smart Storage
NSS326D06-K9	NSS 326 6-Bay Smart Storage with six 1TB Hard Drives
NSS326D12-K9	NSS 326 6-Bay Smart Storage with six 2TB Hard Drives
<b>Accessories</b>	
HDT020	HDT 020 Hard Drive Tray
HDT021	HDT 021 Hard Drive Tray with 1TB Hard Drive
HDT022	HDT 022 Hard Drive Tray with 2TB Hard Drive
NSS030	NSS 030 External Power Adapter for NSS 322 Smart Storage

## Warranty

This Cisco Small Business product comes with a 5-year limited hardware warranty with return to factory replacement. In addition, Cisco offers software updates for bug fixes, telephone technical, and online chat support at no charge for the first 12 months following the date of purchase. To download software maintenance updates, go to: [www.cisco.com/go/smallbizsmartstorage](http://www.cisco.com/go/smallbizsmartstorage).

Product warranty terms and other information applicable to Cisco products are available at [www.cisco.com/go/warranty](http://www.cisco.com/go/warranty).

## Service and Support

### Cisco Small Business Pro Service

Cisco NSS 300 Series Smart Storage is backed by the Cisco Small Business Pro Service, which provides 3-year affordable peace-of-mind coverage. Delivered by Cisco, this comprehensive subscription-based service includes software updates, extended access to the Cisco Small Business Support Center, and next-business-day hardware replacement as necessary. It provides community-based support to enable small businesses to share knowledge and collaborate using online forums and wikis to help boost business efficiency, identify and reduce risks, and serve customers better.

### Built-in and Add-on Application Support

Open source built-in and add-on applications are available for Cisco Smart Storage solutions. Cisco supports built-in application installation and basic configuration for the first 12 months of the Smart Storage warranty, and during the Small Business Pro Service agreement period. Open source online community support resources are available for customers who require additional support for built-in and add-on applications. For more information, visit [www.cisco.com/go/smartstorage-apps](http://www.cisco.com/go/smartstorage-apps).

### For More Information

For more information about Cisco NSS 300 Series Smart Storage, visit <http://www.cisco.com/go/smartstorage>.



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