

## Cisco NSS300 Series Smart Storage Cisco Small Business



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

These days, investing in reliable data storage is a necessity for most small businesses. Your electronic data is growing fast, and you need to be sure that your most critical business and customer information is safely backed up—both locally and online.

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. Online backup can provide additional peace of mind by securely storing your business data offsite. By choosing a comprehensive solution that combines both backup options, you get data protection you can trust.

#### Cisco NSS300 Series Smart Storage

Cisco<sup>®</sup> NSS300 Series Smart Storage is a series of two-bay, four-bay, and six-bay desktop network storage solutions that deliver comprehensive, affordable data protection and disaster recovery by combining onsite and online storage. Cisco Smart Storage offers integrated online backup from Mozy, the world's most popular online backup service. The solution is easy to set up, configure, and manage with one simple, browser-based interface that lets you choose what you want to back up locally and what you want to back up online.

Cisco Smart Storage offers built-in and add-on applications that extend usage beyond storage, giving you more value for your money. This flexible solution is designed specifically for small businesses, with business-class features such as data encryption to protect critical data. In addition, to protect your investment, Cisco Small Business Support Service provides three years of affordable peace-of-mind coverage.



## 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. Its class-leading performance means shorter backup times and faster file-sharing across multiple users.

### Available integrated online backup provides comprehensive data protection

Cisco Smart Storage makes it easy to combine onsite and online backup for a comprehensive, flexible data protection and disaster recovery solution. With online backup, your critical business data remains safe even if your office network equipment is stolen or damaged. Built-in support for Mozy, the world's most popular online backup service, helps you centralize and automate backup of your critical business data—what you want to store locally and what you want to back up online—all through one intuitive interface. Military-grade encryption helps ensure data security, and Mozy's global data centers employ state-of-the-art security, giving you additional peace of mind. Your local partner can help you activate Mozy on your Cisco Smart Storage device, or you can easily purchase and enable it yourself.

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

Your Cisco Smart Storage device comes with built-in applications and the capability 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 small business storage solutions do not provide.

### Simplified configuration and management saves time

Cisco Smart Storage can be set up in minutes and is easy to configure and manage. Choose what you want like to back up locally and what you want to back up online using one straightforward, browser-based interface. To save time during account setup, you can use user account information from your Microsoft Windows Active Directory server, allowing employees to access Cisco Smart Storage with their existing login names and passwords.

### Flexibility supports the way you work

Cisco Smart Storage supports file sharing across Microsoft Windows, Mac OS X, and Linux platforms. Choose from multiple onsite and online backup modes, including PC to Smart Storage using any Microsoft 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 you can use the Wake on LAN feature to power on your Cisco Smart Storage device remotely. Hard disk drives spin down after inactivity for additional power conservation. Integrated applications help save energy by reducing the number of network-based devices that your small business needs.

### Product Specifications

Tables 1 and 2 give the product specifications for Cisco NSS300 Series Smart Storage.

**Table 1.** Device-Specific Information

| Description                        | NSS322                      | NSS324                                      | NSS326  |
|------------------------------------|-----------------------------|---|---|
| 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              | Specifications  |
|--------------------------|---|
| <b>Hardware</b>          |   |
| CPU                      | Intel Atom D510 1.66 GHz (Dual Core)  |
| RAM                      | 1 GB DDR II   |
| Flash                    | 512 MB  |
| Internal Hardware 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  |
| Operating Temperature    | 0–40°C  |
| 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 and 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 and Bonjour Discovery</li> </ul> |

| Description                          | Specifications  |
|--------------------------------------|---|
| 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>• Maximum Concurrent Connections: 256</li> <li>• FXP Supported</li> <li>• Passive FTP Port Range Control</li> <li>• FTP Bandwidth and Connection Control</li> <li>• Unicode Support</li> </ul>  |
| 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 and 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 (maximum: 8)</li> <li>• Stack Chaining Master</li> </ul>  |
| Server Virtualization and 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 (maximum: 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 (maximum: 4096)</li> <li>• Groups (maximum: 512)</li> <li>• Shares (maximum: 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>• SNMP Traps (v2 and v3)</li> <li>• UPS Support with SNMP and USB</li> <li>• Resource Monitor</li> <li>• Network Recycle Bin for CIFS/SMB</li> <li>• Comprehensive Logs (Events and Connections)</li> <li>• Real-time online user list</li> <li>• Syslog Client</li> <li>• Backup and restore system settings</li> </ul> |

| Description                | Specifications   |
|----------------------------|--|
|                            | <ul style="list-style-type: none"> <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>  |
| 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 and 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 and background photo transcoding</li> <li>• Supports UPnP and DLNA Media players such as Game Consoles (PlayStation 3, PSP, Xbox 360), Media Adapters, Mobile Devices (e.g. iPhone/iPod Touch/iPad with UPnP/DLNA Application)</li> <li>• Supports formats: video (asf, flv, f1v, f4v, mp4, mpeg), audio (mp3, wave), picture (bmp, gif, jpg, png)</li> </ul>   |
| Mozy Online Backup         | <ul style="list-style-type: none"> <li>• Automatic and scheduled backups</li> <li>• Configure options and throttle bandwidth to customize performance</li> <li>• Block-level incremental backups ensure fast daily backups</li> <li>• 30-day file versioning support allows you to restore deleted or previous versions of files</li> <li>• Local file encryption via Blowfish-448 prior to transfer to the Mozy data center</li> <li>• Encrypted files transferred via industry standard SSL connection using highest-grade encryption available</li> <li>• Stored at data center with the original Blowfish-448 encryption</li> <li>• SAS70 or ISO 27001 certified data centers</li> <li>• Visit <a href="https://cisco.mozy.com/country_support">https://cisco.mozy.com/country_support</a> for country availability</li> </ul> |
| PKG Added-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 and 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  |

## Warranty

This Cisco Small Business product comes with a five-year limited hardware warranty with return-to-factory replacement. In addition, Cisco offers software updates for bug fixes, telephone technical support, and online chat support at no charge for the first 12 months following the date of purchase. To download software maintenance updates, go to <http://www.cisco.com/go/smallbizsmartstorage>. Product warranty terms and other information applicable to Cisco products are available at <http://www.cisco.com/go/warranty>.

## Service and Support

### Cisco Small Business Support Service

Cisco NSS300 Series Smart Storage is backed by the Cisco Small Business Support Service, which provides three years of affordable peace-of-mind coverage. This subscription-based service helps you protect your investment and derive optimal value from Cisco Small Business products. Delivered by Cisco, with input from your trusted partner, this comprehensive service includes software updates, access to the Cisco Small Business Support Center, and next-business-day hardware replacement. Cisco Small Business products are supported by professionals in Cisco Small Business Support Center locations worldwide who are specifically trained to understand your needs. The Cisco Small Business Support Community, an online forum, enables you to collaborate with your peers and reach Cisco technical experts for support information.

**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 Cisco Smart Storage warranty and during the Cisco Small Business Support 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 <http://www.cisco.com/go/smartstorage-apps>.

**For More Information**

For more information about Cisco NSS300 Series Smart Storage, visit <http://www.cisco.com/go/smartstorage>.



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