

Linksys Business Series NSS Models



NSS4000

The diskless, intelligent chassis design of the Linksys NSS4000 gives users and integrators the flexibility to configure the system to be optimized for performance, capacity and/or reliability depending on the size and type of SATA (Serial AT Attachment) drives selected. The NSS4000 supports up to 15 concurrent, connected CIFS users.

NSS4100

The Linksys NSS4100 is identical to the NSS4000 but is populated with four 250GB High-Duty Cycle, removable SATA hard drives for a total capacity of 1TB. The NSS4100 supports up to 15 concurrent, connected CIFS users and is preconfigured to RAID 5. RAID level is reconfigurable.



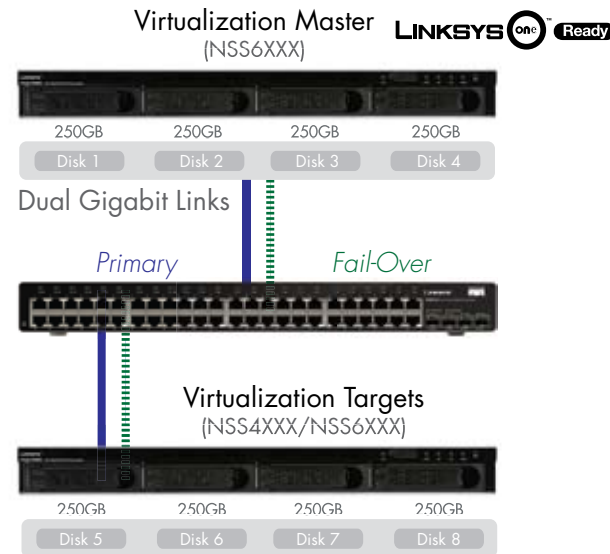
NSS6000

The diskless, intelligent chassis design of the Linksys NSS6000 gives users and integrators the flexibility to configure the system to be optimized for performance, capacity and/or reliability depending on the size and type of SATA drives selected. The NSS6000 supports up to 75 concurrent, connected CIFS users.

NSS6100

The Linksys NSS6100 is identical to the NSS6000 but is populated with four 250GB High-Duty Cycle, removable SATA hard drives for a total capacity of 1TB. The NSS6100 supports up to 75 concurrent, connected CIFS users and is preconfigured to RAID 5. RAID level is reconfigurable.

Virtualization Examples



A Virtualization Master Unit Can Host Up To 4 Exported/ Networked Disks or RAID Sets

Virtual RAID JBOD - (Across Up To 4 Networked Disks)



Virtual RAID 1 - (Across Up To 4 Networked Disks)

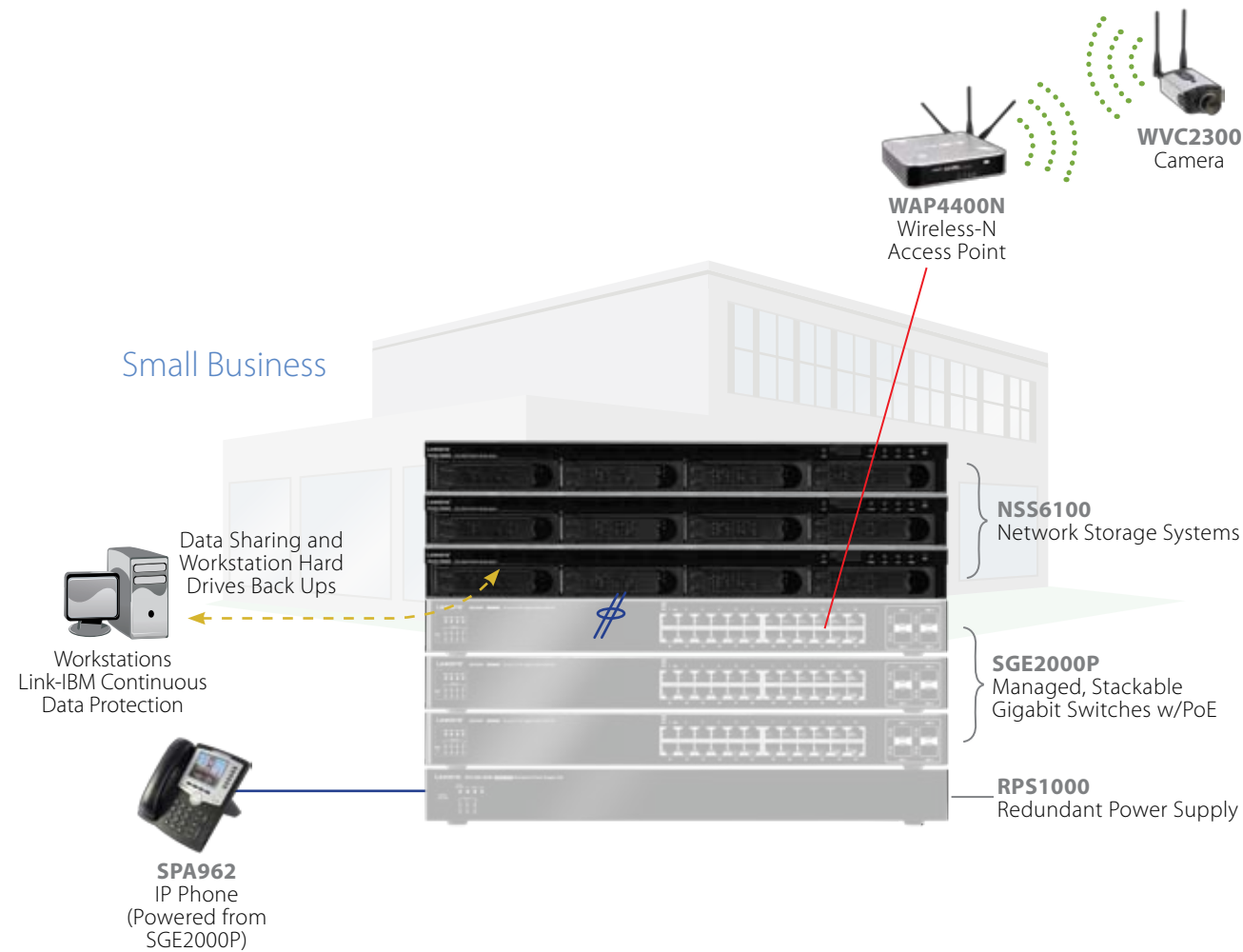


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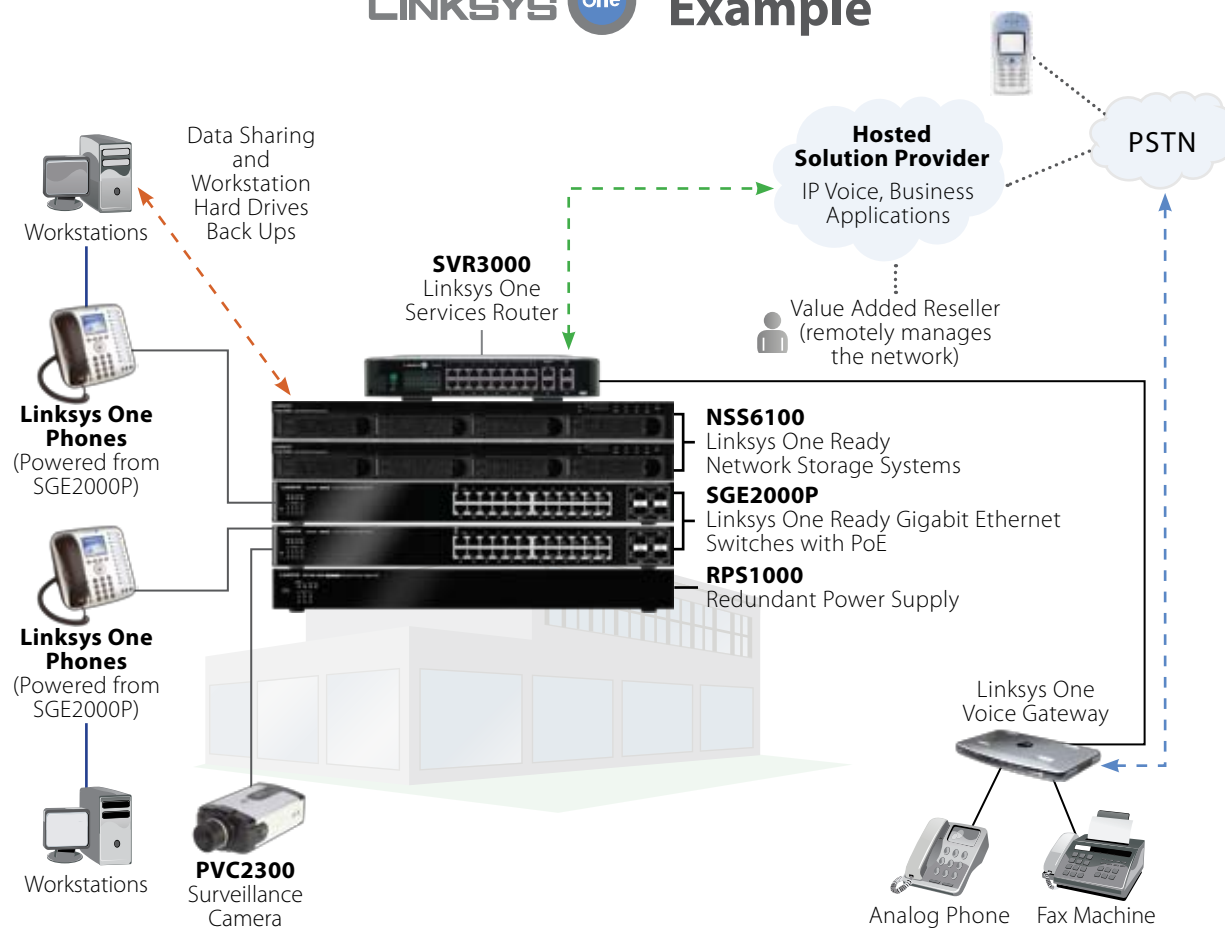
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Specifications subject to change without notice. Capacities indicated are based on common industry standard designations. 1GB=1 billion bytes and 1TB=1 trillion bytes. Actual writeable capacities may vary based on formatting and configuration of hard drives, assigned RAID level, and drive manufacturer.

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LINKSYS one Example

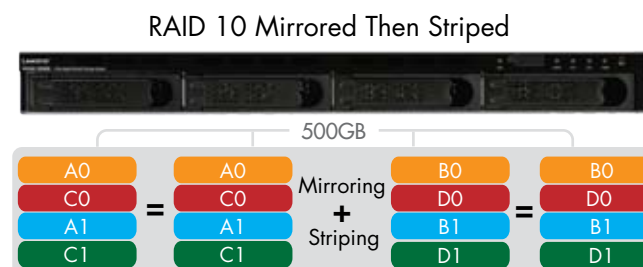
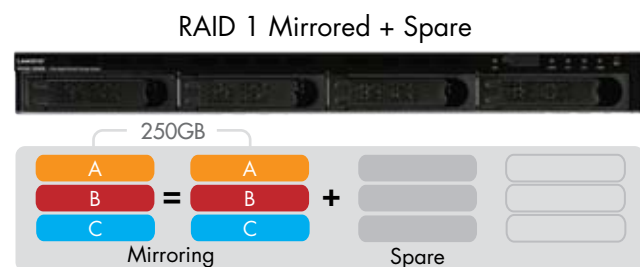
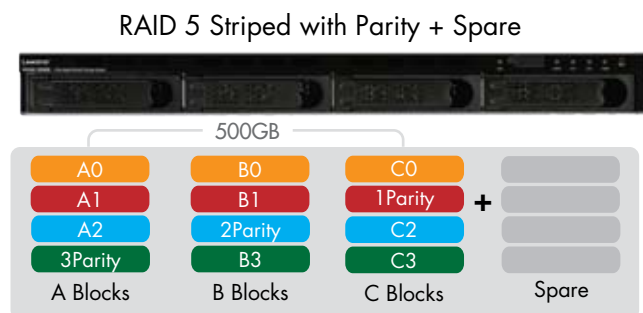
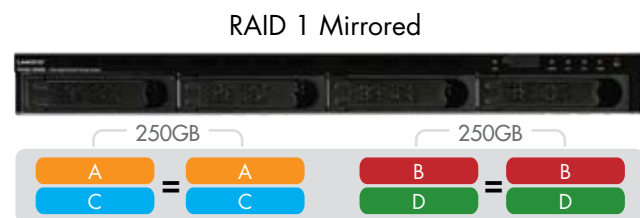
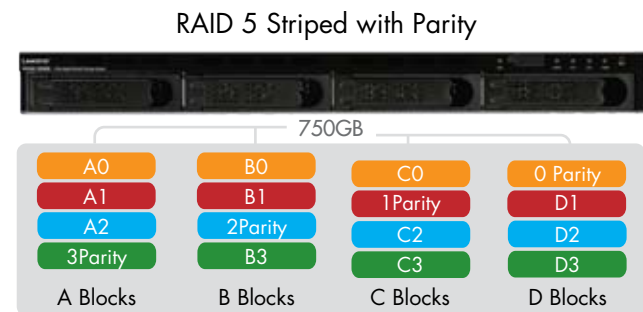
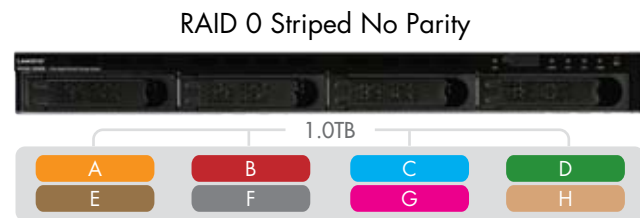
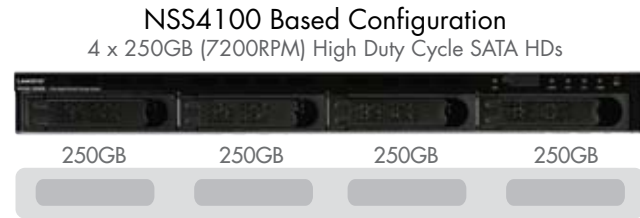


Linksys by Cisco

BUSINESS SERIES Network Attached Storage Guide



Supported RAID Configurations



Price/Performance Advantages

- Linksys One Integration/Upgradeability
- Lowest Cost/Highest Feature Set Product in its Class
- Configuration – With or Without Populated Disk Drive Bays
- Return on Investment through Lower Operations Costs
- Mix-and-Match-Pay as You Expand Your Network
- Linux OS Embedded Architecture for Lower Sustaining Cost of Owners

Storage

- 4 Hot-Swappable SATA Hard Drive Bays
- Support for RAID 0,1,1+Spare, 5, 5+Spare 10, and JBOD Configurations
- RAID Hot Spares
- RAID Degraded Mode Management
- Graceful Handling of RAID Failure
- Configurable RAID Rebuild Priority
- Flexible Volume Manager with Volume Grow
- Per User/Group Hard and Soft Volume Quotas
- S.M.A.R.T. Hard Drive Health Monitoring and Reporting
- Robust, High-Performance Journalled Filesystem with Power-Down Reliability
- Idle Drive Spin-Down
- Staggered Drive Spin-Up
- RAID Set Migration Between Systems with Drive Order Independence
- Volume Encryption (256-bit AES)
- Network-based Storage Aggregation

Networking

- Dual Gigabit Ethernet interfaces
- Active Backup Link Bonding
- Jumbo Frame Support (up to 9000 byte/9k MTU)
- Ethernet Cable Diagnostics
- Auto MDI/MDIX Crossover
- DHCP IP Assignment with AutoIP Link Local IP fallback
- Optional DHCP Auto-Configuration of Hostname, DNS, WINS, MTU and NTP Settings
- 802.1q VLAN support (both port/MAC based VLANs and VLAN trunking) for integration into existing data networks
- 802.1p QoS
- Configurable Service Port Settings
- Configurable Network Access Filtering (IP and MAC based)
- AES, DES and 3DES SSL Cipher Support
- Automatic Time Synchronization via NTP
- Network-based ACLs (based on MAC or IP address)

Advanced Features

Filesharing

- SMB/CIFS Filesharing Supporting PC/Mac Clients
- NFS Filesharing Supporting Linux/Unix Clients (NFSv3)
- FTP Filesharing
- Multi-Protocol Shares
- Unified File Locking
- File ACLs (modifiable from Windows client)
- Anonymous FTP Share
- FTPS (Explicit FTP over SSL and FTP over TLS)
- Per User Home Shares
- Ability to act as Microsoft Distributed File System (MSDFS) Root (including support for multiple roots)
- Per User/Group Share Access Control
- Public Shares
- Configurable Idle User Disconnect (CIFS and FTP)

Authentication

- Microsoft Windows NTv4 domain support
- Microsoft Active Directory Service (ADS) Domain Support
- NIS Domain Support
- Allows Simultaneous Use by Local and Domain Users
- UID/GID Range Management to Prevent Mapping Conflicts

Backup and Snapshots

- Local Share Backup (to another NSS or any Windows fileserver)
- Flexible Backup Scheduler
- Full and Incremental Backups
- Backup Image Compression (gzip)
- Volume Snapshots
- Ability to Back Up from Snapshot (to ensure backup image consistency)

Device Management

- Browser-based GUI Management & Firmware Upgrade
- Secure Remote Management (via HTTPS)
- Configuration Backup and Restore (including volume encryption headers)
- Ability to Save Configuration Backup to USB Flash Drive (enabling configuration migration)
- Button Triggered Network Settings Restore
- Browser-based Firmware Update for OS-independent Upgrade
- Firmware Update Configuration Migration Preserves Settings
- At-a-glance System Status Summary
- Comprehensive Context-sensitive Online Help
- Linksys One Ready (Service Provider-hosted Window-in-Window Web Portal)
- Comprehensive Logging (administration history, GUI access, CIFS transfer and FTP transfer logs)
- Remote Logging (syslog)
- Summary System Alerts with Severity Indication on GUI Main Status Page
- Configurable SNMP Traps on System Events
- Reliability
- Dual Firmware Images
- Hardware Watchdog (automatically reboots system in the unlikely event of a system crash minimizing downtime)

Device Discovery

- Bonjour Advertisement (Linksys One Ready)
- UPnP Advertisement
- Device Auto-discovery Tool

Power Management

- Intelligent Power Management with Integrated UPS Support
- Redundant Power Supply Unit (RPSU) support (via optional Linksys RPS1000)
- Onboard Power Supply Monitor
- Power Down Reliability

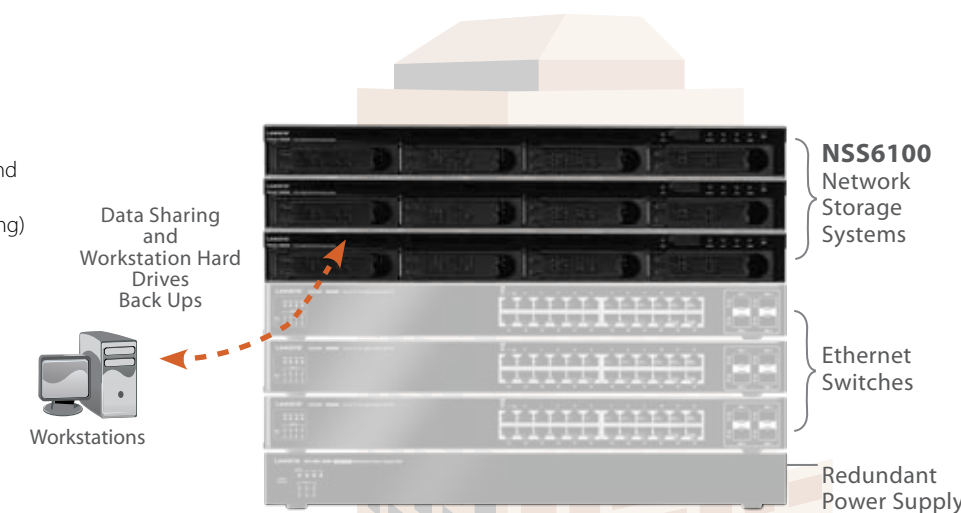
Hardware Monitor

- System Voltage Monitoring
- System Temperature Monitoring (chassis and hard drives)
- Fan Speed Monitoring
- System Alerts (on Abnormal Voltage, Over/Under Temperature and Fan Stall Events)
- Automatic Temperature Sensitive Fan Control for Quiet Operation

LED indicators

- Power LED (bi-color indicating system startup/shutdown and firmware upgrade status)
- Per-drive Configuration and Activity LED
- Per-drive Error LED (indicating predicted failure and actual failure)
- Per-drive Locate LED
- Per-link LAN Link/Activity LED with 10/100/Gigabit Speed Indication
- USB Flash Drive Status Indicator LED
- UPS Status Indicator LED
- System Error LED (bi-color indicating warnings and serious errors)

Small Business Network



Redundant Power Supply

Optional External Redundant Power Supply Unit (RPSU) Support via Linksys RPS1000

Unlike other NAS products from other vendors that require separate external power supplies per device, any combination of up to four rack-mountable Linksys One Ready Switches (SFE2000, SGE2000, SFE2000P and SGE2000P) and Network Storage System products can be powered by one RPSU (Redundant Power Supply Unit) like the Linksys RPS1000. This can be a substantial cost savings for budget-minded small businesses.

Approved Hard Disk Drive Vendor List

	Manufacturer	Capacity	Part Number/Model Number
Hitachi	3.5" 7200 RPM SATA	250GB	0A33423
	3.5" 7200 RPM SATA	500GB	0A31619
	3.5" 7200 RPM SATA (New Part Number)	1.0TB	0A35772
Seagate	3.5" 7200 RPM SATA	250GB	ST3250820AS
	3.5" 7200 RPM SATA	500GB	ST3500630AS
	3.5" 7200 RPM SATA	750GB	ST3750640AS
Western Digital	3.5" 7200 RPM SATA - RAID Edition FW-20.06C06	250GB	WD2500YS
	3.5" 7200 RPM SATA - RAID Edition FW-09.02E09	500GB	WD5000YS
	3.5" 7200 RPM SATA - RAID Edition (New Part Number)	750GB	WD7500AYYS
	3.5" 10000 RPM SATA FW-20.06C06	150GB	WD1500ADF

Benefits of Intelligent Chassis Architecture and Linux OS

Unlike other Network Attached Storage (NAS) systems, that need to contain operating system software on one or more hard drives, each Linksys Network Storage System (NSS) product features a unique and intelligent chassis that contains the Linux OS that controls the system. This gives the NSS system the flexibility to be configured without connected drives and reconfigured at any time. And since there's no operating system software on any of the drives in a Linksys NSS system, if a drive fails, the system still operates. With a Linksys NSS product there's no need to purchase third-party OS software upgrades, third-party OS software licenses, or accessories to run NSS units. This flexible architecture makes the Linksys Business Series NSS series ideally suited for budget-conscious companies that are constantly evolving or growing.

