ZyXEL

- **2-Bay media server with capacity of up to 4TB**
- **DLNA 1.5-certified media server compatible with a wide range of media devices**
- **Intuitive user interface integrated with media player**
- **zPilot™ for media auto-classification with easy drag-and-drop**
- **Online auto-upgrade firmware service**
- **Runs eMule/BitTorrent/ FTP/HTTP downloads independent of PC**
- **All-in-one backup solution to protect valuable user data**
- **Green media server provides power scheduling and hard disk hibernation for energy saving**

Click and Play Intuitively, Make Your Media Alive

Benefits

Centralized Media Server for Multimedia Streaming

The ZyXEL NSA221, DLNA 1.5-certified 2-Bay Media Server, supports multiple server technologies for multimedia sharing. Acting as an iTunes server, SqueezeCenter, personal blog and photo album server for PCs, laptops, and SqueezeBoxes, NSA221 can make it easy to stream and share music and photos.

Through an enhanced online "Package" management, advanced users can easily choose their preferred applications online. The selected application software will be automatically downloaded from the ZyXEL website and install. It can save your storage capacity for applications you require and offer you the real-time application software support per your needs.

NBG-460N
Wireless N
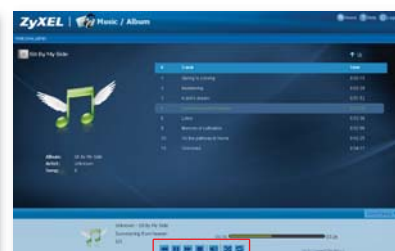Gigabit Router
with VPN

NSA221
2-Bay Media Server

Intuitive User Interface Integrated with Media Player

With the user-friendly installation wizard, it's easy and simple to manage and backup media files. Through an intuitive user interface integrated with the media player, you can play music and photo slide shows directly from NSA221. The NSA221 also allows you to create a music playlist and play it on the background for photo slide shows.

A newly designed alphabetical search bar provides you a more convenient way to search files within thousands of songs, photos and videos stored in the NSA221.

Home Screen

Music Playback Button

NSA221
2-Bay Media Server

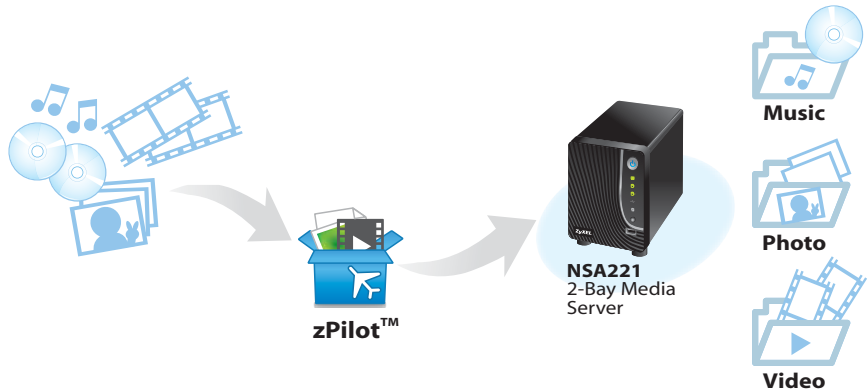UPnP™   dlna CERTIFIED®   ENERGY STAR   Powered by an ENERGY STAR® qualified adapter for a better environment

NSA221
2-Bay Media Server

zPilot™ for Media Auto-classification with Easy Drag-and-drop

The zPilot™ file auto-classification function of NSA221 enables you to easily store and manage media files through simple drag-and-drop operations. With the zPilot™ software installed through the NAS Starter Utility, you can drag one or more files/folders to the zPilot™ icon on the desktop, and the files/folders will be identified and delivered automatically to music, photo, video or other designated folders on NSA221; users can also easily check the upload status of data transmission.

Online Auto-upgrade Firmware Service for Quick Feature Enhancements

Through the online auto-upgrade firmware service, you can immediately download the latest firmware from the ZyXEL Web site to your NSA221 for on-the-fly feature enhancements.

Powerful Auto Download/Upload Platforms Freeing Up Your PC

To save even more power, the NSA221's platform allows you to continuously download/upload files without powering on your PC.

BitTorrent/eMule/HTTP/FTP

The NSA221 features a BitTorrent client for fast downloading and sharing large files. With supports to the high-speed DHT (Distributed Hash Tables) mode and TCP/UDP tracker protocols, the NSA221 overcomes the drawbacks of slow and disrupted downloading.

With the link capture* support, the files can be downloaded even when the PC is off. This is particularly useful for large and lengthy downloads that draw enormous PC power and drain system resources.

The NSA221 enables you to establish your FTP server and manage the access authorization for it. The auto-upload function can automatically upload files stored on the NSA to FTP servers; it's a very efficient way to update multiple FTP servers simultaneously and share files with friends and family.

RSS

After you subscribe to RSS feeds and add the links to NSA221, the built-in RSS client enables the NSA221 to automatically download the latest digital contents, such as TV programs and Podcasts. With RSS server support, NSA221 makes it easy for you to share the files with your friends by subscribing to the RSS feeds you set.
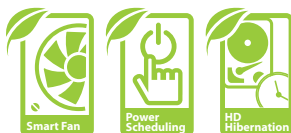
Flickr/YouTube

The NSA221 supports auto-upload to photo/video sharing websites as flickr and YouTube. With simple setup steps, newly updated photos and videos stored in the NSA221 can be automatically uploaded to flickr and YouTube.

All-in-one Backup Solution to Protect Valuable User Data

The NSA221 provides a complete set of backup solutions for home and SOHO users. With the intelligent "Copy/Sync" button, the NSA221 makes it even easier to copy to or from external USB storage devices, card readers and digital cameras. In addition, the "Backup Planner" provides you with instant and scheduled backup services from the NSA221 to other ZyXEL storage devices or external USB mass storages. Using the simple setup steps, you can easily plan backup schedule according to personal needs. Furthermore the advanced functions such as data compression and synchronization also optimize the bandwidth and time for data backup processes with better performance.

Green Media Server for Energy Saving

To save on electric bills and provide better environmental protection, the NSA221 consumes less power without compromising performance. Compared to traditional PC storage which normally consumes 200 Watts, the NSA221 consumes 80% less power.

With the advanced internal hard disk hibernation support, the hard disks in the NSA221 can automatically spin down when there is no data transmission after a period of time. Equipped with smart fan technology, the NSA221's fan can run at slower speed when the system temperature is low, which can save power consumption.

Furthermore, the NSA221's eco-friendly scheduling function can automatically perform power management tasks according to specific date/time or idle period settings for better power efficiency. In other words, the NSA221 can automatically turn on or off based on your usage patterns and needs to conserve power and cost.

*The function of link capture only supports on Windows XP/Vista.

ZyXEL

NSA221
2-Bay Media Server

Specifications

System Specifications

Networking
- Network protocol:
  - TCP/IP
  - CIFS/SMB, NFS (for Linux/Unix)
  - FTP, HTTP
  - DHCP client
  - PPPoE
  - NTP (Network Time Protocol)
- Network setting:
  - DyDNS support
- Network applications:
  - Gigabit jumbo frame support up to 9K bytes
  - UPnP AV server
  - iTunes server support
  - SqueezeCenter support
  - Samba/FTP server support
  - Photo album server
  - phpMyAdmin/MySQL/PHP
  - Support eMule/BitTorrent/FTP/HTTP downloads
  - Auto-upload newly-added files to FTP servers, flickr and YouTube

Media Playback Support
- Support Windows Media Center plug-ins for playing music/videos
- Support photo slide show

Support File System
- Internal HDD: XFS
- External HDD: EXT2, EXT3, FAT32, ReiserFS, XFS

Security
- Support HTTPS and FTPES (FTP over explicit TLS/SSL)
- Encrypted NSA to NSA remote replication
- Encrypted NSA to external disk archive backup

Backup Solutions
- One-touch copy/sync button for external USB-capable devices backup
- Backup planner:
  - Instant/scheduled backup
  - NSA to NSA synchronization/archive backup
  - NSA to external USB hard disk backup
- PC to NSA backup (Memeo AutoBackup software)

USB Device Support
- USB hard disk and card reader
- Digital camera (support picture transfer protocol)
- UPS monitoring and auto shutdown

RAID Features
- RAID0, RAID1, JBOD

Disk Maintenance
- Self-Monitoring Analysis and Reporting Technology (S.M.A.R.T.)
- Automatically detect disk bad block with e-mail notification

Power and Thermal Management
- Power control:
  - Internal disk hibernation support
  - Scheduled power on/off/reboot
  - System automatically resume after power outage
- Thermal management:
  - Smart fan speed control
  - High temperature alert/buzzer
  - Auto shutdown while high temperature

Management
- User & group management
- Package Management for setting up applications
- IP filter table management
- Download service with bandwidth control
- Download status management
- RSS client and server support auto-download and notification
- Recycle bin with auto-cleanup and restoring files function

System Tools
- System maintenance:
  - System resource, session, status monitoring
  - Online auto-upgrade firmware
- Alarm:
  - E-mail notification for specific severity of log recorded
  - High temperature e-mail alert with auto-shutdown option
- Logs:
  - Syslog record
  - Periodically system event with e-mail notification

Minimum System Requirements
- OS for utility: Windows XP/Vista/7 (32 & 64 bit)
- Browser: IE 6.0+, Firefox 2.0+

Hardware Specifications
- Two 3.5" SATA I/II hard disk interface supported
- One Gigabit Ethernet RJ-45 connector
- Three USB 2.0 ports
- Buttons:
  - Power button
  - Copy/Sync button
  - Reset button
- Smart fan design
- Power consumption:
  - Access mode: 32.75 Watt
  - Hard disk hibernation mode: 19 Watt
- Power supply:
  - Input: 100 ~ 240 V AC, 50/60 Hz
  - Output: 19 V DC; 2.1 A

Physical Specifications
- Item weight: 1,057 g (2.34 lb)
- Item dimensions:
  108 (W) x 205 (D) x 147 (H) mm
  (4.25 (W) x 8.07 (D) x 5.79 (H) inches)
- Packing weight: 1,535 g (3.39 lb)
- Packing dimensions:
  280 (W) x 173 (D) x 210 (H) mm
  (11.02 (W) x 6.81 (D) x 8.27 (H) inches)

Environmental Specifications
- Operating environment:
  - Temperature: 0°C ~ 40°C (32°F ~ 104°F)
  - Humidity: 0% ~ 95% (Non-condensing)
- Storage environment:
  - Temperature: -30°C ~ 70°C (-22°F ~ 158°F)
  - Humidity: 0% ~ 95% (Non-condensing)

Certifications
- Safety: CE LVD
- EMC: CE, FCC class B, C-Tick, BSMI
- Others: DLNA 1.5, UPnP

Package Contents
- Network storage device (Hard disks not included)
- Power supply & power cord
- Ethernet cable
- Quick start guide
- Support CD
- Warranty card

ZyXEL

NSA221
2-Bay Media Server

Front Panel

- Power LED
- LED Indicator: System/HDD1/HDD2/USB/Copy
- Copy/Sync Button
- USB 2.0 Port
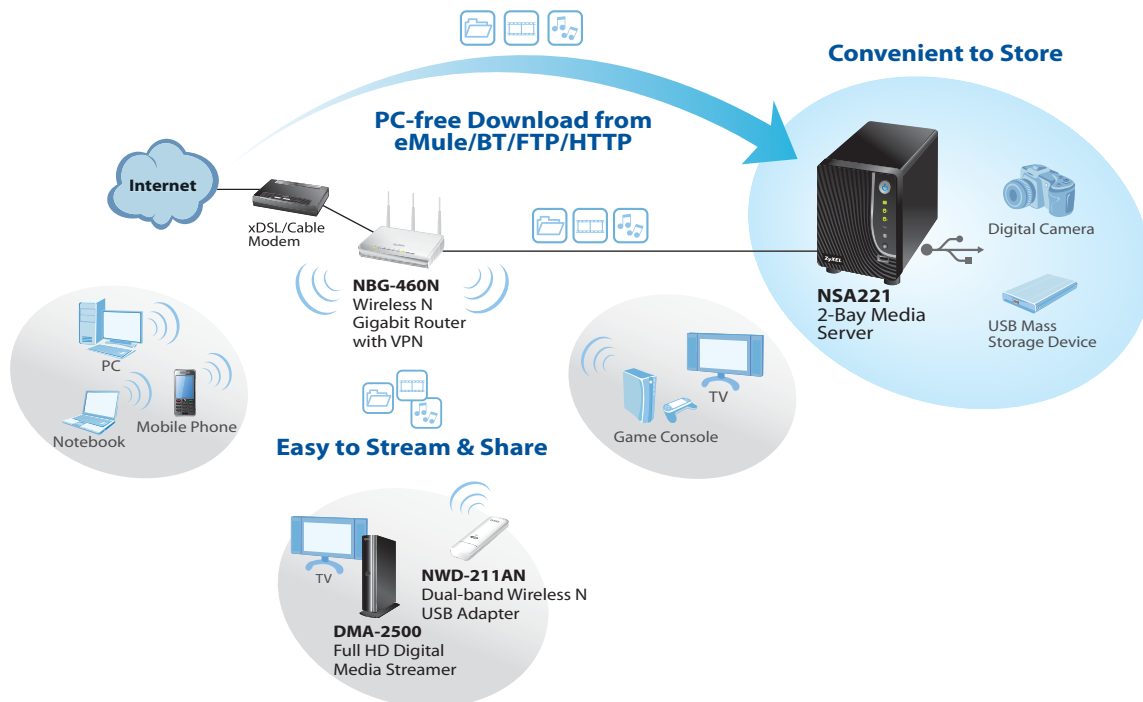
Rear Panel

- USB 2.0 Port
- Gigabit Ethernet Port
- Power Connector
- Fan
- Kensington Security Slot
- Power Cord Storage Hook

Application Diagram

Convenient to Store

PC-free Download from eMule/BT/FTP/HTTP

Internet

xDSL/Cable Modem

NBG-460N
Wireless N Gigabit Router with VPN

PC

Notebook

Mobile Phone

NSA221
2-Bay Media Server

Digital Camera

USB Mass Storage Device

Game Console

TV

Easy to Stream & Share

TV

DMA-2500
Full HD Digital Media Streamer

NWD-211AN
Dual-band Wireless N USB Adapter

For more product information, visit us on the web at www.ZyXEL.com