



ReadyNAS: Advanced Performance and Data Protection

The ReadyNAS 210 is the industry's first high performance, cost and power efficient network attached storage product that offers transcoding capability of full HD 1080p. The ReadyNAS 210 offers the industry's leading feature of 5 levels of protection on your documents, photos, videos and all types of data. The ReadyCLOUD® portal-based user interface and app on PC, Mac, smartphones and tablets make the RN210 the ideal choice for consumers because of its simplicity and ease of use.

- Quad core ARM Cortex A15 1.4GHz processor and 2GB of RAM
- 1080p HD real-time streaming and transcoding to a remote device (VC, MP4, MPEG2/4, H.264)
- Dual Gigabit Ethernet - Up to 2x throughput in Link Aggregation mode
- Maximize simultaneous throughput with up to 200MB/s read and 160MB/s write speeds
- High performance anti-virus
- Next-gen BTRFS file system combined with other NETGEAR technologies deliver 5 levels of complete data protection



HIGH PERFORMANCE STREAMING

- 1.4GHz quad core processor for accelerated read/write
- Powerful media server using Plex®, iTunes® or DLNA®
- HD media streaming to multiple devices
- 1080p real-time transcoding
- Near-0 throughput degradation anti-virus



ADVANCED BACKUP AND SYNC

- VPN based personal cloud – most secure and no configuration
- Create a virtual network for multiple users with sync between access portal, ReadyNAS® and PCs
- Time Machine backup support for all the Macs® in your home
- On-the-go backup of photos from your phone
- Link Aggregation enables up to 2x system throughput



5 LEVELS OF DATA PROTECTION

- RAID: hard drive redundancy
- Exclusive Snapshot technology for point-in-time file recovery
- Real-time anti-virus software protects against viruses and malware
- Bit rot protection defends against media degradation
- Free cloud backup for your most important files

ReadyNAS Desktop Model Comparison - 210 Series



	RN212	RN214
CPU	Quad core 1.4GHz High Performance ARM Cortex A15	
Memory	2GB	2GB
Drive Bays	2	4
Drive Types Supported	SATA/SSD 2.5" or 3.5"	
Hot Swappable Drives	Yes	Yes
Tool-less 3.5" Disk Installation	Yes	Yes
eSATA Ports	(1) eSATA	(1) eSATA
Gigabit LAN Ports	2	2
USB Ports	(3) USB 3.0	(3) USB 3.0
Max Capacity (based on 6TB drives)	12TB	24TB
Number of Concurrent Users	1-8	1-8
Power Supply	12V, 5A External 60W; input 100-240V AC, 50/60Hz	12V, 7A External 90W; input 100-240V AC, 50-60Hz
Transcoding On-the-Fly	Yes	Yes
File Transfer at AC Speeds	Yes	Yes
Chassis Warranty*	3 years	3 years
2-line LCD Display	No	Yes
Fan (mm)	92	92
Dimensions DxWxH (mm)	220 x 101 x 142	223 x 134 x 205
Weight (kg)	2.03	4.02



Technical Specifications

Media

- Full HD 1080p wire speed streaming and transcoding to 480p (VC, MP4, MPEG2/4, H.264)
- ReadyDLNA (UPnP DLNA Media Server)
- ReadyDLNA streams to any compliant device including PS3/Xbox 360
- ReadyDLNA mobile clients for remote media streaming (iOS, Android)
- ReadyDLNA supported music formats (wav, wma, pcm, ogg, mp3, m4a, flac, aac)
- ReadyDLNA supported photo formats (jpg, jpeg)
- ReadyDLNA supported video formats (3gp, mp4, wmv, xvid, vob, ts, tivo, mts, mpeg, mpg, mp4, mov, mkv, m4v, m4p, m2t, m2ts, flv, flc, fla, divx, avi, asf, flv)
- ReadyDLNA supported playlist formats (pls, m3u)
- ReadyNAS Surveillance (1-camera license included) supports over 85 brands and 2000 models of IP cameras
- ReadyNAS Surveillance supports up to 8 cameras (optional licenses required) • RNNVR01L (Optional 1-camera license) • RNNVR02L (Optional 2-camera license) • RNNVR04L (Optional 4-camera license)
- iTunes Server
 - iTunes supported audio formats (mp3, m4a, m4p, wav, aif)
 - iTunes supported video formats (m4v, mov, mp4)
 - iTunes supported playlist formats (m3u, wpl)
- TiVo Archiving
- Plex Media Server streams to DLNA and Plex clients (mobile, desktop, Google TV, Roku, Samsung & LG TVs)

ReadyCLOUD (cloud access to ReadyNAS)

- ReadyCLOUD portal based data access and management
- Drag-and-drop folder and file backup
- VPN quality remote data transfer and management
- Share data with friends & co-workers directly from portal
- Share files via email link

Hardware

- Floating Point CPU
- Flash: 128MB for OS
- Dual Gigabit Ethernet ports with Link Aggregation and failover
- Programmable One-Touch USB Backup button

- Kensington Security Lock Feature
- LEDs: Power, Activity, Disk, Backup, LAN
- Power cord localized to country of sale
- Mean Time Between Failure (MTBF) Hours@ 25C: ReadyNAS 212 2,280,099
- Mean Time Between Failure (MTBF) Hours @ 25C: ReadyNAS 214 1,896,235

ReadyCLOUD Client Applications

- ReadyCLOUD client applications available for Microsoft Windows, Mac OS, Android, and Apple iOS
- VPN quality remote data transfer and management
- Simple and secure remote access through ReadyCLOUD client (no firewall or router configuration needed)
- Sync files/folders between multiple PCs & ReadyNAS
- Sync files/folders between multiple users & ReadyNAS
- Backup files/folders from PC to ReadyNAS

Data Protection (Backup & Replication)

- Unlimited block-based snapshots for continuous data protection
- Restore Snapshots from any point in time
- Restore Snapshot data from local admin GUI, ReadyCLOUD access portal, or native Windows File Explorer
- Scheduled and manual snapshots
- rsync (File Synchronization)
- Encrypted Remote Replication
- Data compression
- Cloud managed Remote Replication (ReadyNAS to ReadyNAS). No licenses required
- AES 256-bit volume based encryption
- X-RAID (automatic single volume online expansion)
- Single Disk, JBOD
- RAID Levels: 0, 1, 5, 6, 10 (RAID level support depends on number of drives/bays)
- Backup to external storage (USB/eSATA)
- USB One-Touch Copy
- Apple Time Machine support
- Create private Time Machine targets per user
- Shared Time Machine Mode
- Manage & monitor Time Machine usage per user
- ReadyNAS Vault Cloud backup. Free service tier with optional capacity upgrades

- DropBox file synchronization (requires DropBox account)
- Real-time Anti-Virus scanning using signature and heuristic algorithms. (No end-user licenses required) Protection for viruses, malware, worms, and Trojans
- Bit rot automatic protection & correction for degraded media

File System & Transfer Protocols

- ReadyNAS OS 6.4.0 or later
- Linux 4.x
- Internal File System: BTRFS
- External File System: EXT3, EXT4, NTFS, FAT32, HFS+
- Copy-on-write filesystem
- Microsoft Network (CIFS/SMB)
- Apple OS X (AFP 3.3)
- Linux/Unix (NFS v3)
- Internet (HTTP)
- Secure Internet (HTTPS)
- File Transfer Protocol (FTP)
- FTP over SSL / TLS (explicit)
- FTP Passive mode with port range setup
- FTP Bandwidth control
- FTP Anonymous
- FTP Transfer Log
- Secure Shell (SSH)
- Web Authoring (WebDAV)
- Storage Array Network (iSCSI)
- File Synchronization (rsync)
- Local web file manager
- Supported Web Browsers (Internet Explorer 10+, Mozilla Firefox 33+, Google Chrome 39+, Apple Safari 8+)

Users/Groups

- Max # Users: 8192
- Max # User Groups: 8192
- Max # Share Folder: 1024
- Max # Concurrent Connections: 1024
- Share Folder Level ACL Support
- Advanced Folder Permissions with Subfolder ACL support for CIFS/SMB, AFP, FTP
- Microsoft Active Directory (AD) Domain Controller Authentication
- Local access list
- ReadyCLOUD based ACL
- Domain user login via CIFS/SMB, AFP, FTP

Technical Specifications

Networking Protocols

- TCP/IP
- IPv4
- Next-generation Internet Protocol (IPv6)
- Static IP Address
- Dynamic IP Address
- Multiple IP Settings
- DHCP Client
- UPnP Discovery
- Bonjour Discovery
- Link Aggregation and Port Trunking: IEEE 802.3ad link aggregation LACP, balanced round robin, active backup, balance xor, broadcast, transmit load balancing, adaptive load balancing
- Hash Types IEEE 802.3ad LACP or XOR (Layer 2, Layer3, Layer 4)
- Jumbo Frames
- SSH
- SNMP v2, v3
- Network Time Protocol (NTP)

Management

- ReadyCLOUD cloud based discovery and management
- RAIDar local discovery agent (Windows/ Mac)
- Automatic ReadyCLOUD discovery as well as RAIDar local discovery agent (Windows/ Mac)
- Save and restore system configuration (clone devices)
- Local event log
- Connection reporting (SMB)
- Local Graphical User Interface (GUI) Languages: English, German, French, Japanese, Chinese, Russian, Swedish, Portuguese, Italian, Spanish, Polish, Czech, Dutch, Korean
- Unicode support
- Volume Management
- Thin provision Shares and LUNs

Quota Setting for Shares

- Instant Provisioning/Expansion with data protection
- Supported Operating Systems (Microsoft Windows 7 (32/64-bit), 8/8.1 (32/64-bit), Microsoft Windows Server 2008 R2/2012, Apple OS X, Linux/ Unix, Solaris, Apple iOS, Google Android)
- Supported Web Browsers (Microsoft Internet 10+, Mozilla Firefox 33+, Google Chrome 39+, Apple Safari 8+)

Accessories

- RTRAY05: Replacement/additional 3.5" or 2.5" disk drive tray

Add-on Applications

- One click installation of add-on applications directly through local GUI
- Applications available for productivity, media, backup, surveillance, and many others
- NETGEAR applications include Surveillance, Photo Sharing, Advanced configuration tools
- Partner applications include BitTorrent Sync, Plex, Memeo, DVBlink
- Community applications include Transmission, ownCloud, Qbittorrent, MySQL, VPN server, Wordpress, Joomla, Media Wiki, and others.
- Application availability subject to change.
- Applications may impact overall performance
- Software Development Kit available for 3rd party developers

System Monitoring

- Device capacity, performance, resource and health monitoring
- Bad block scan
- Hard Drive S.M.A.R.T.
- File System Check
- Disk Scrubbing
- Alerts (SMTP email, LCD, SNMP, local log)
- Auto-shutdown (hard drive, fan, UPS)
- Auto-restart on power recovery

Environment

- Noise levels: <25dBA
- Operating Temperature: 0°-40° C
- Operating Humidity: 5-95% relative humidity, non-condensing
- Smart Fan
- Scheduled power on/off
- UPS Support
- Network UPS with SNMP Management
- Wake on LAN
- Hard drive disk spin down
- Auto-power on (after shutdown)
- AC Input Power Voltage 100V to 240V
- Power Frequency: 50Hz to 60Hz, Single Phase
- Certification: FCC Class B, CE Class B, RoHS, VCCI Class B

*The 3-Year Limited Warranty covers hardware, fans, and internal power supplies - not software or external power supplies. Warranty is only valid for the original purchaser, and modifications to product may void the warranty. See <http://www.netgear.com/about/warranty/> for details. Warranty for included drives is 3 years.

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