NETGEAR®

ReadyNAS® 200 Series Network Attached Storage (NAS)

ReadyNAS: Advanced Performance and Data Protection

The ReadyNAS 200 is powered by a dual core ARM Cortex A15 1.4GHz processor, has 2 Gigabytes of RAM, dual Gigabit Ethernet ports with Link Aggregation technology and delivers up to 200MByte/sec data transfer speed. It 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 RN200 the ideal choice for consumers because of its simplicity and ease of use.

RN204   RN202

– Dual core ARM Cortex A15 1.4GHz processor and 2GB of RAM

– Dual gigabit Ethernet - Fast data transfer and streaming

– Up to 200MB/s read and 160MB/s write, maximize simultaneous throughput at gigabit Ethernet and 802.11ac WiFi clients

– ReadyCLOUD portal-based user interface and app make building a private cloud easy and secure

– Advanced BTRFS file system delivers 5 levels of complete data protection

– Powerful desktop app for complete file syncing and automatic backup

– Virtual Private Time Machine Backup for all the Macs in your home

– Fully customizable, with hundreds of advanced settings and 70+ add-on applications including Plex for streaming media

ADVANCED BACKUP AND SYNC

• Automatic backup with new PC App

• Sync folders between ReadyNAS® and PCs

• Time Machine® backup support for all the MACs® in your home

• On-the-go backup of photos from your phone

STREAM AND SHARE PHOTOS, MOVIES & MUSIC

• Powerful media server using Plex, iTunes® or DLNA®

• 1.4GHz dual core processor for uninterrupted streaming

• Drag and drop photos for easy saving and sharing

• Free mobile app for anywhere cloud access

5 LEVELS OF DATA PROTECTION

• Automatic multi-folder backup and RAID protect against multi-point failures

• Exclusive snapshot technology for file recovery

• Realtime anti-virus software protects against viruses and malware

• Bit rot protection defends against media degradation

• Free cloud resources for additional backup

ReadyNAS Desktop Model Comparison – 200 Series

	RN202	RN204
CPU	Dual 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
Power Supply	12V, 5A External 60W: input 100-240V AC, 50/60Hz	12V, 7A External 90W; input 100-240V AC, 50-60Hz
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
ProSUPPORT Service Packs Available	200 Series	
OnCall 24x7	1-year: PMB0311 3-year: PMB0331	
XPressHW Replacement	3-year: PRR0331	

Technical Specifications

Media
- 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 202 2,280,099
- Mean Time Between Failure (MTBF) Hours @ 25C: ReadyNAS 204 1,896,235

ReadyCLOUD Client Applications
- ReadyCLOUD client applications available for Microsoft Windows, 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 PC (Mac/Windows) & ReadyNAS
- 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 to any point in time
- Restore Snapshot data from local admin GUI, ReadyCLOUD, 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 for ReadyNAS OS 6 devices
- 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)
- RAID Global Hot Spare
- Backup to external storage (USB/eSATA)
- USB One-Touch Copy
- Apple Time Machine support
- Create private virtual Time Machine targets per user
- 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 6.2 or later
- Linux 3.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 IEEE 802.3ad
- Port Trunking (balanced round robin, active backup, balance xor, broadcast, 802.3ad link aggregation LACP, 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)
- 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
- Instant Provisioning/Expansion with data protection
- Restore to factory default
- Operating Systems supported: Microsoft Windows 7, 8/8.1, 10, 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, Syslog, 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
- Disk Defragment
- Alerts (SMTP email, LCD, SNMP, syslog, 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