Ultimate Performance Data Storage at the Speed of 10 Gigabit

10 Gigabit Ethernet is quickly becoming the standard for business networks, driven by faster computing end-points and the proliferation of wireless mobile devices. The RN620 meets the demands of the next generation network by integrating dual 10 Gigabit Ethernet interfaces, avoiding networking bottlenecks, and 4K video multi-streaming and real-time transcoding for ultimate streaming performance. ReadyNAS® 620 is available in 6 and 8 Bay for a total storage capacity of 80TB or up to130TB with expansion module, up to 120 users, for

optimized usage in high-demanding environments such as creative studios, company headquarters or large branch offices.

All ReadyNAS are built on the revolutionary ReadyNAS OS 6 operating system and next-gen BTRFS file system. A best-in-class 5 levels of data protection - X-RAID, Unlimited Snapshots, Bit rot protection, real-time anti-virus and easy offsite replication work in concert to securely protect your data from common risks.

All ReadyNAS systems utilize proprietary

ReadyCLOUD® technology. With ReadyCLOUD, remotely accessing and sharing files in your own secure private cloud has never been easier. No VPN setup, no port forwarding, no dynamic DNS required.

Featuring an architecture powered by the blazing fast quad core hyper threaded Intel Xeon server processors along with DDR4 ECC memory, the RN620 is the no compromise, high performing data storage systems of choice for businesses that need the ultimate in capacity, performance and security.

RN626X/RN628X

All Inclusive Solution for Data Sharing, Storing & Securing

- File Sharing: Unified storage platform for sharing files between Windows, Mac and Linux-based computers

- Hard Drive Redundancy: RAID redundancy with automatic expansion and unlimited data snapshots for point in-time restore

- Cloud Collaboration: Share selected folders and files with ReadyCLOUD with partners, clients or internal teams

- Backup & Recovery: ReadyDR disaster recovery solution based on block level replication technology

- High Scalability: ReadyNAS grows with your business data with 5Bay expansion chassis availability

- Virtualization: Thin provisioning, iSCSI support and certified with VMware

Key Business Features

- Automatic Backup & Sync: Using the ReadyCLOUD app for PC, scheduled protection is easier than ever before

- Bit Rot Protection: A proprietary technology protecting your files from unplanned degradation

- Unlimited Snapshots: Unlimited data snapshot capability for on-box protection and flexible data recovery

- X-RAID & Instant Provisioning: Easily expand capacity and feel confident knowing that data is always protected

- Cloud-managed Replication: Maintain data sets in multiple locations or ensure protection of data from remote or branch office locations

- iSCSI and Thin Provisioning: Powerful tools for a business taking advantage of virtual infrastructures

- Anti-virus & Encryption: Keep data protected from outside threats and safe from prying eyes
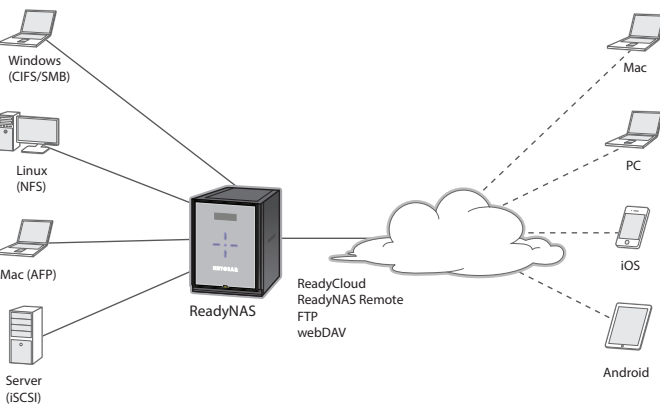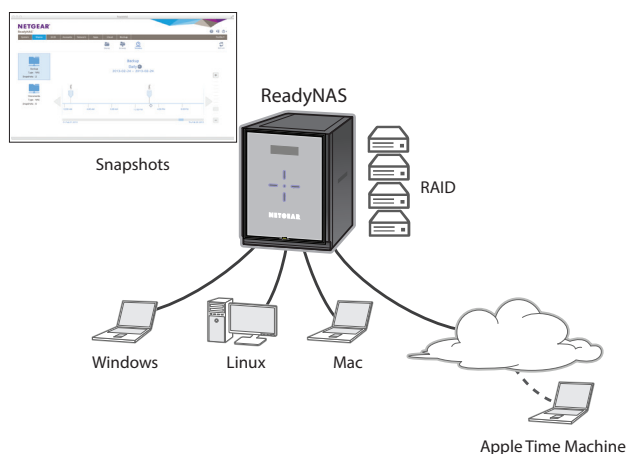
- Modern GUI and Cloud/Remote Access from Anywhere: Sleek modern interface and patented technology for secure remote access without configuration effort

ReadyNAS Solutions

File Sharing

These days, running a successful business often depends on successful file sharing—application data, virtual images, client files, email, all the digital files that make your business go. With ReadyNAS, you finally have an advanced and easy-to-use solution for centralizing, securing, and sharing those critical assets. Faster processors mean more simultaneous users can access unified storage—across PC, Mac and Linux environments. ReadyCLOUD and full Dropbox integration make it easier than ever to sync your important files, photos or videos across all of your web-connected devices.
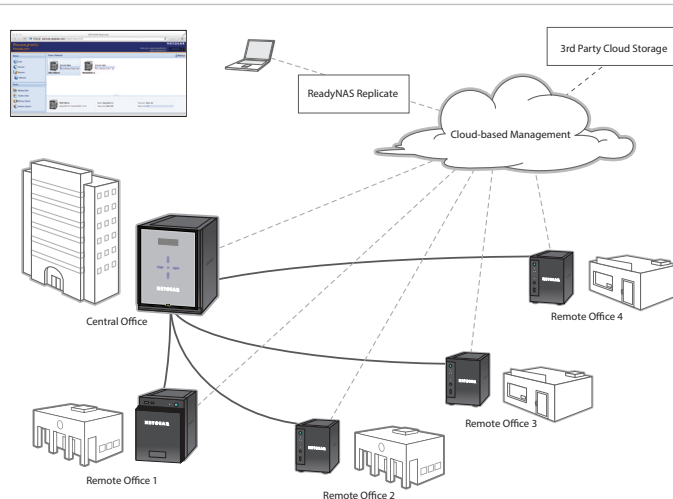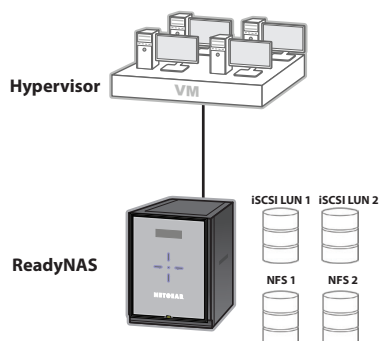

Snapshots
ReadyNAS
RAID
Windows   Linux   Mac
Apple Time Machine

Disaster Recovery

The custom-built ReadyNAS OS protects stored data with automatic RAID configuration, the continuous security of Unlimited Snapshots, and easy-to-manage Cloud Replication. By maintaining multiple copies of vital data through cloud replication, it makes it easy for you to move data offsite to protect against natural disasters and theft.

Hypervisor   VM
ReadyNAS
iSCSI LUN 1   iSCSI LUN 2
NFS 1   NFS 2

Windows (CIFS/SMB)
Linux (NFS)
Mac (AFP)
Server (iSCSI)
ReadyNAS
ReadyCloud
ReadyNAS Remote
FTP
webDAV
Mac
PC
iOS
Android

Backup

Unlimited snapshots give you complete control over the past, present, and future of your data. This enterprise-class feature copies any point of time in the file system, can be manually or automatically scheduled, and can restore any version with a simple click. Other data protection innovations for disk-based storage like Real Time Anti-Virus and Encryption bring new confidence to the integrity of your data and back-ups.

3rd Party Cloud Storage
ReadyNAS Replicate
Cloud-based Management
Central Office
Remote Office 4
Remote Office 3
Remote Office 2
Remote Office 1

Virtualization

With Unlimited Snapshots, thin provisioning, and improved iSCSI support, ReadyNAS delivers a virtualization platform with next-generation features at an affordable price.

ReadyNAS Desktop Model Comparison - 620 Series

Hardware	ReadyNAS 626X	ReadyNAS 628X
CPU	Intel® D-1521 Quad Core 2.4GHz Xeon Hyper Threaded Server Processor	Intel® D-1521 Quad Core 2.4GHz Xeon Hyper Threaded Server Processor
Memory	8GB DDR4 ECC	8GB DDR4 ECC
Drive Bays	6	8
Drive Types Supported	SATA/SSD 2.5" or 3.5"	SATA/SSD 2.5" or 3.5"
Hot Swappable Drives	Yes	Yes
Tool-less 3.5" disk installation	Yes	Yes
eSATA Expansion Ports	1	1
Internal Capacity	60TB	80TB
Gigabit LAN Ports	2 Gigabit LAN ports	2 Gigabit LAN ports
10Gbps LAN Ports	2 (10GBase-T)	2 (10GBase-T)
USB Ports	Three (3) USB 3.0 (1 front, 2 rear)	Three (3) USB 3.0 (1 front, 2 rear)
Power Supply	Internal 200W: input 100-240V AC, 50/60Hz	Internal 250W input 100-240V AC, 50/60Hz
BTU at Full power supply utilization	100.0W 341 BTU/hr	130.6W 446 BTU/hr
Power consumption: Operation	70.5W	85.6W
Power consumption: (Wake on LAN)	310mW	348mW
Power consumption: (Power Off)	264mW	341mW
2-Line LCD Display	Yes	Yes
Push Button Navigation	Yes	Yes
Fan (mm)	120	120
Dimensions DxWxH (mm)	288 x 192 x 259	288.55 x 192 x 319
Weight (kg)	7.97kg	9.38kg
Bluetooth dongle	Yes	Yes

Technical Specifications

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
Instantly clone snapshots
File Synchronization (rsync)
Encrypted Remote Replication
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)
Expand multiple RAID groups (vdev)
Single Disk, JBOD
RAID Levels: 0, 1, 5, 6, 10
RAID Global Hot Spare
eSATA Expansion
Backup to external storage (USB/eSATA)
Apple Time Machine support
Remote Apple Time Machine backup and restore (over ReadyNAS Remote)
ReadyNAS Vault Cloud backup (optional service)
Amazon Cloud Drive synchronization (requires Amazon account)
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.
Bitrot automatic detection & correction for degraded media

Storage Area Networks (SAN), Virtualization
Unlimited iSCSI LUN Snapshot
Thin or thick provision LUNs
Multi-LUN per target
LUN mapping
LUN masking
SPC-3 Persistent Reservation (iSCSI)
MPIO (iSCSI)
MC/S (iSCSI)

Technical Specifications

Storage Area Networks (SAN), Virtualization

Max # iSCSI Target: 256

Max # iSCSI LUN: 256

VMware vSphere 5

Citrix XenServer 6

Windows Server 2008 Hyper-V

Windows Server 2008 Failover Clustering

Windows Server 2012 R2

ReadyCLOUD (cloud access to ReadyNAS)

ReadyCLOUD portal based data access and management

Upgrade firmware remotely

VPN quality remote data transfer and management

Share data with friends & co-workers directly from portal

Share file via email link

ReadyCLOUD Client Applications

ReadyCLOUD client applications for Apple OS X, Microsoft Windows, Android, and Apple iOS

VPN quality remote data transfer and management

Simple 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 and ReadyNAS

Sync files/folders between multiple users & ReadyNAS

Backup files/folders from PC to ReadyNAS

File System & Transfer Protocols

ReadyNAS OS 6.6 (RN626X/628X) or later

Linux 4.x

Internal File System: BTRFS

External File System: EXT3, EXT4, NTFS, FAT32, HFS+

Copy-on-write file system

Data Compression

Microsoft Network (CIFS/SMB 3)

Apple OS X (AFP 3.3)

Linux/Unix (NFS v4)

Internet (HTTP)

Secure Internet (HTTPS)

File Transfer Protocol (FTP)

Technical Specifications

File System & Transfer Protocols
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

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

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 (Traditional & Simplified), 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 Explorer 9+, Microsoft Edge, Mozilla Firefox 14+, Google Chrome 20+, Apple Safari 5+)

Technical Specifications

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
Volume balance
Alerts (SMTP email, LCD, SNMP, local log)
Auto-shutdown (hard drive, fan, UPS)
Auto-restart on power recovery

Networking Protocols
TCP/IP
IPv4
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
Static routes
Secure Shell (SSH)
Simple Network Management Protocol v2, v3
Network Time Protocol (NTP)

Technical Specifications

Media	
	ReadyDLNA (UPnP DLNA Media Server)
	ReadyDLNA streams to any compliant device including Playstation and Xbox
	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)
	ReadyDLNA supported playlist formats (pls, m3u)
	ReadyNAS Surveillance (free trial, license required) supports over 85 brands and 2000 models of IP cameras
	ReadyNAS Surveillance supports up to 32 cameras for RN526X and 64 cameras for RN626X
	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 (varies by model and region)
	Plex Media Server streams to DLNA and Plex clients (mobile, desktop, Android TV, Roku, Samsung & LG TVs)
Compliance	
	ENGR 10049 EST Environmental Stress Test Guideline
	ENGR 10045 EVT Engineering Validation Test Guideline
	ENGR 10048 CVT Compliance Validation Test Guideline
	ENGR 10046 System Validation Test Guideline
	ENGR 10023 HALT Accelerated Life Test Guideline
	ENGR 10036 CDG Component Derating Guideline
Environment	
	Noise levels: <28dBA @ 30C (ReadyNAS 516/716), <24.9dBA @ 30C (all other units)
	Operating Temperature: 0-40C
	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

Technical Specifications

Environment	
Schedule power on/off	
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	

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	
Application 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 (SDK) available for 3rd party developers	

Warranty and Support	
Hardware Limited Warranty	5 years*
Next-Business-Day (NBD) Replacement	Yes
Technical Support	90 days free from date of purchase*

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