

Quad-core NAS Series

TS-231P3 TS-431P3

2.5GbE connectivity for home



TS-431X3

supports 10GbE SFP+/2.5GbE RJ45 for SOHO



Quad-core TS-231P3, TS-431P3, TS-431X3 with new 2.5GbE support



- Needs for a larger storage space and efficient file backup and sharing
- All models with 2.5GbE support, additional 10GbE SFP+ on TS-431X3
- Ready-to-use applications for worry-free file backup and sharing

Storage need for shooting many 4K 60P VLOGs?





How to quickly share files or collaborate with multiple users?

- Spend \$\$\$ to buy a 10GbE switch?
- Spend \$\$\$ to buy a 10GbE NAS?
- Spend \$\$\$ to upgrade the LAN cable wiring

infrastructure?

Quad-core 1.7GHz with 2.5GbE/10GbE

TS-431X3

1 x 10G SFP+ 1 x 2.5G RJ45 1 x 1G RJ45



TS-431X3-4G 4 GB RAM (1 x 4 GB)

TS-431P3

1 x 2.5G RJ45 1 x 1G RJ45



TS-431P3-2G 2 GB RAM (1 x 2 GB)

TS-431P3-4G 4 GB RAM (1 x 4 GB)

TS-231P3

1 x 2.5G RJ45 1 x 1G RJ45



TS-231P3-2G 2 GB RAM (1 x 2 GB)

TS-231P3-4G 4 GB RAM (1 x 4 GB)

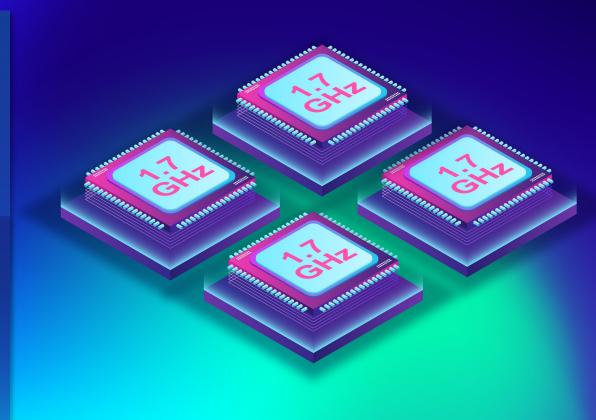
Performance you can count on



4-core 1.7GHz

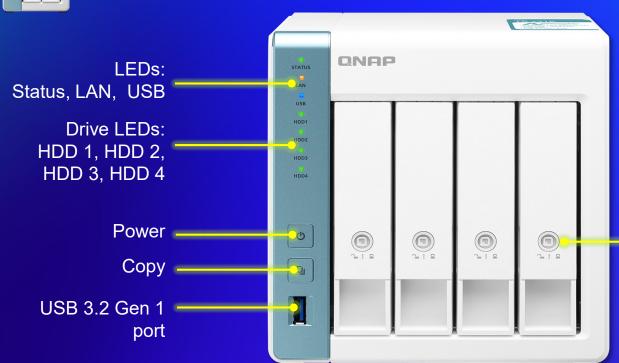
Alpine AL-314 ARM v7 processor

- Native 4 x SATA 6 Gb/s ports for the optimal throughput
- Built-in AES 256-bit encryption engine for security and performance
- ARM NEON v2 floating point acceleration engine
- 2MB L2 cache, twice more than the competition!





TS-231P3, TS-431P3 front view



4x 3.5-inch / 2.5-inch SATA 6Gb/s HDD bays



Lockable drive trays with 2 keys provided





TS-231P3, TS-431P3 rear view



Reset

1 x 2.5 GbE RJ45 port

1 GbE RJ45 port

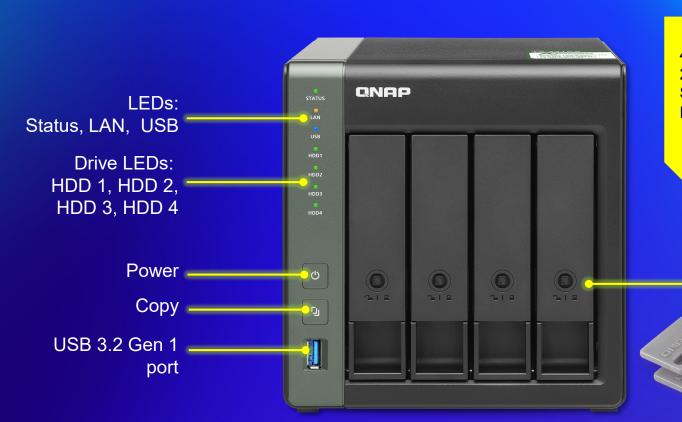
2 x USB 3.2 Gen 1 (5Gbps) port

DC 12V power input

Kensington security slot

Smart fan

TS-431X3 front view

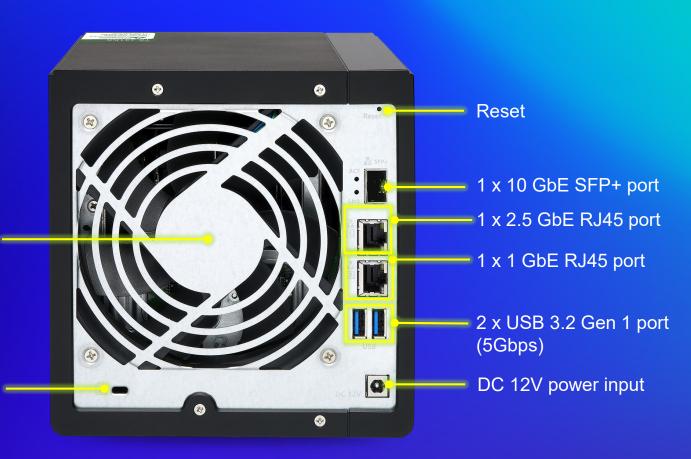


4x 3.5-inch / 2.5-inch SATA 6Gb/s HDD bays



Lockable drive trays with 2 keys provided

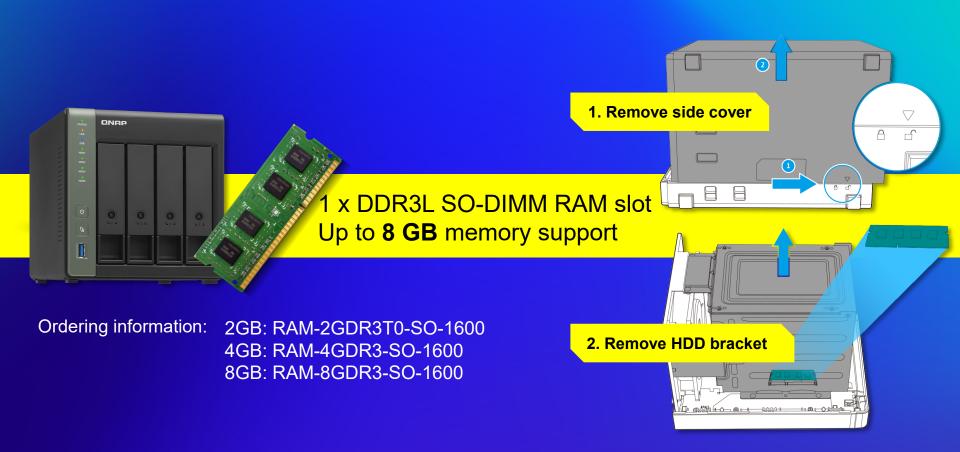
TS-431X3 rear view



1 x 120mm smart fan

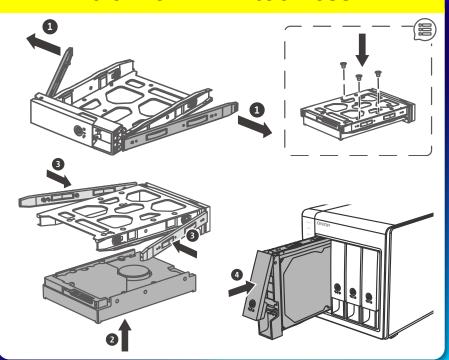
Kensington security slot -

All models support up to 8GB RAM

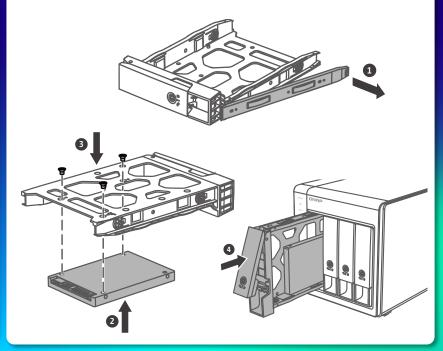


Easy HDD and SSD installations

3.5-inch HDD: tool-less



2.5-inch HDD/SSD: screws



Upgrade to 2.5GbE with existing cable wiring

Multiple QNAP 10G switch supporting 2.5GbE



QSW-M408-4C (Managed)

4 x 10G/5G/2.5G RJ45 Multi-Gig



QSW-M408-2C (Managed)

2 x 10G/5G/2.5G RJ45 Multi-Gig



QSW-1208-8C

8 x 10G/5G/2.5G RJ45 Multi-Gig



QSW-308-1C

1 x 10G/5G/2.5G RJ45 Multi-Gig

	CAT 5e	CAT 6	CAT 6A
100M	✓	✓	✓
1G	1	✓	✓
2.5 G	1	✓	✓
5G	1	✓	✓
10G	X	√ (55m)	✓

Faster TS-431X3 with 10GbE SFP+



High-speed throughput for large data backup and recovery, multi-user environment, or containerized applications.



Short distance SFP+ DAC cables

1.5M SFP+ 10GbE DAC cable 3.0M SFP+ 10GbE DAC cable 5.0M SFP+ 10GbE DAC cable



Part number: CAB-DAC15M-SFPP

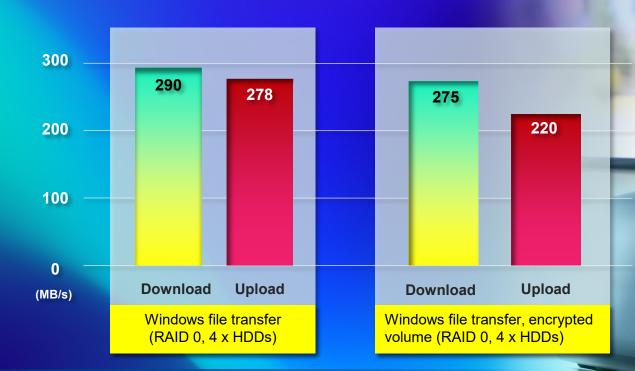


Part number: CAB-DAC30M-SFPP



Part number: CAB-DAC50M-SFPP

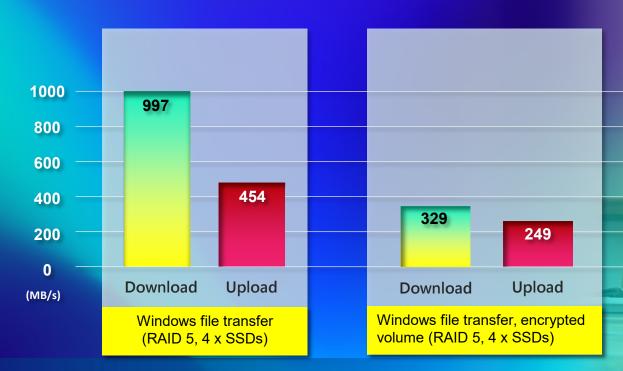
TS-431P3 2.5GbE performance





Intel Core i7-6700 3.4 GHz; 64GB RAM; QNAP LAN-10G2T-X550; MTU 9000. Microsoft Windows 10 64bit, 10GB file

TS-431X3 10GbE SFP+ performance



Tested in QNAP lab. Results vary depending on the environment.

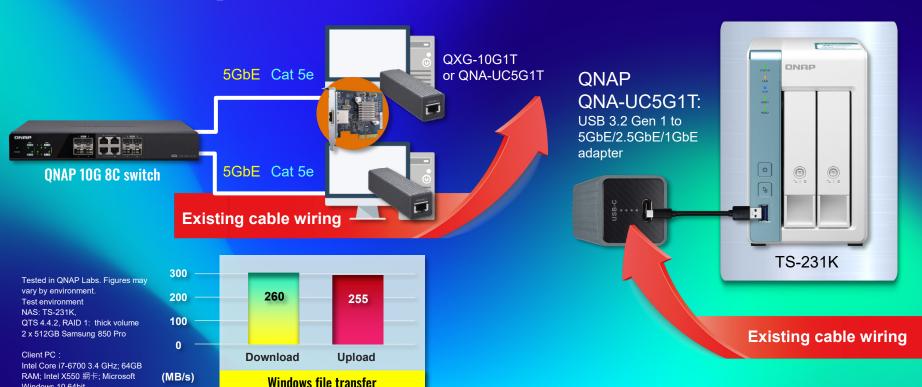
Test Configuration: TS-431X3 -4G, QTS 4.4.2, RAID 5.

4 x Samsung 850 Pro 1TB SSDs

Client PC:

Intel Core i7-6700 3.4 GHz; 64GB RAM; QNAP LAN-10G2T-X550; MTU 9000, Microsoft Windows 10 64bit, 10GB file, 10G switch

Use USB to 5GbE/2.5GbE to enhance the performance of PC/ other NAS



ONA-UC5G1T + TS-231K RAID 1

Windows 10 64bit



Live Demo

- 1 x memory slot for RAM upgrade
- 2.5GbE & 10GbE performance tests



Various NAS applications for your work-from-home needs



Fight against virus and ransomware

Mac O.S.



Windows



NetBak Replicator



TS-431P3

Real-time or scheduled data backup

Free Mac Time Machine backup



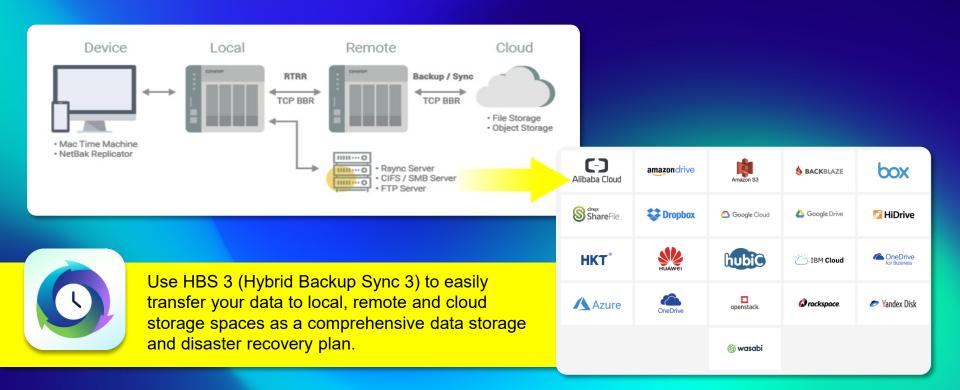
Create the backup job

Select Time Machine Backup as Source

Select TR-004 as Destination

Setup the backup schedule in HBS 3

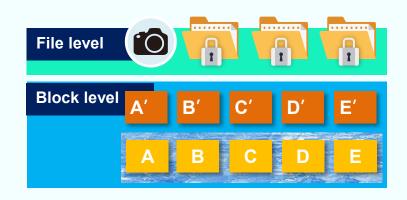
HBS 3 for backup and recovery



QNAP snapshot for file recovery

- 1. Fully supports all storage configurations at the storage pool level.
- 2. Easily take, manage and restore snapshots.
- 3. Using the mature Ext4 file system for "out of volume" snapshots

RAM size	NAS models	Maximum total snapshot numbers	Maximum snapshot number per Volume/LUN
2GB	TS-431P3-2G, TS-231P3-2G	64	32
4GB and above	TS-431X3-4G, TS-431P3-4G, TS-231P3-4G	256	64





Connect to home or office NAS with myQNAPcloud and QNAP ID (QID)

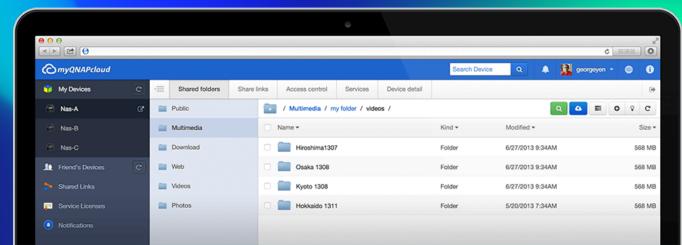
Anytime / Anywhere



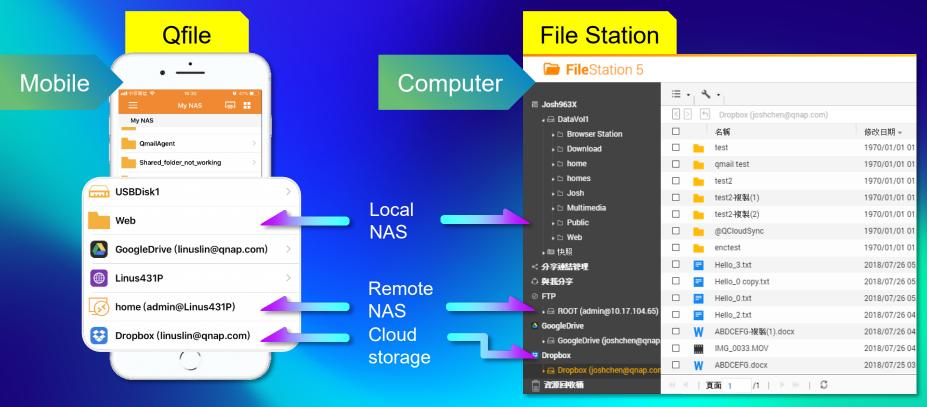
Register and login with Email or phone number







Connect to Dropbox, One Drive, Google Drive and more



QNAP QVPN and QBelt protocol for anywhere access



Secure Encrypted Connection:

DTLS + SSL + AES-256 encryption



New QBelt protocol:

Decreases the chance of being detected



Works on desktop and mobile devices

Windows, macOS, Android, iOS







Build your site with the free WordPress

- 1. Enable SQL server
- 2. Install phpMyAdmin and create a database
- 3. Install WordPress from NAS App Center



QNAP file management utilities improve content publishing efficiency

Free personal domain for quickly enabling SSL certificates





From setup to backup, QNAP NAS has it all

Host multiple websites on QNAP NAS with Virtual Hosting

QuMagie photo management

Album view Folder view Albums and Smart Albums QuMagle All Photo 6,356 photos, 163 videos 2018/06/16 12 photos, 2 videos 2017 2016/08 2018/06/02 2 photos, 1 videos 2018/04/01 2 photos

Use Cinema28 for whole-home streaming

Integrate multiple streaming devices and streaming protocols into a single interface for centralized management, allowing users to easily stream digital multimedia files to audio/video devices in every corner of the house.

TS-431P3



PLEX Server for media streaming



24x7 surveillance for security



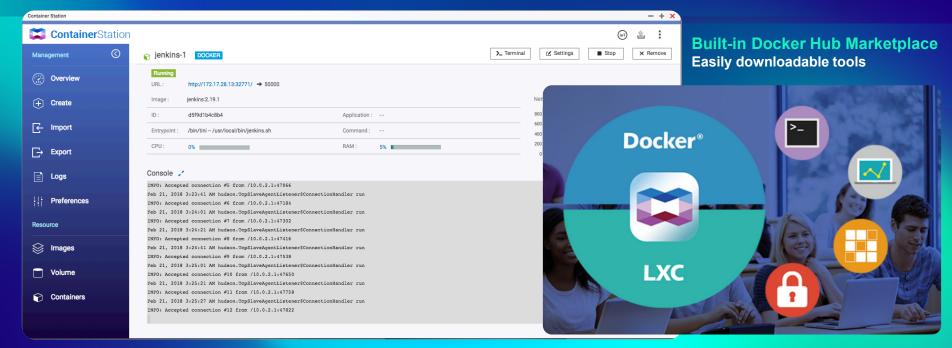
Quad-core w/ max 8GB RAM, best for Container Station to show your creativity

Al, IoT, Commonly-used Container Recommendation

- One-click installation wizard helps you quickly setup
- Supports Docker Compose YAML format to create applications

Easily import/export containers

- Imports images or containers from PC or NAS
- Exports images or containers to NAS as backup



QNAP mobiles apps for data on the go

File & System



Qfile

File management



Qsync

File backup



Qmanager

NAS management

Multimedia



Qphoto Photo library



QuMagie Photo library



Qvideo Video library



Qmusic Music library



DJ2 Client Live streaming



Photo Tagger Classification tool



Qget (Android only)

Download management

Productivity



QmailClient E-mail backup



Qcontactz
Contacts backup



Qnotes3
Notes taker



Vmobile

Mobile surveillance

QNAP TR USB RAID & TL USB JBOD support 2 modes on NAS

- NAS supports maximum two QNAP TR-002/TR-004 RAID enclosures or one TL-D800C USB JBOD enclosure (Compatibility list).
- Internal mode with storage pool support or external mode with cross-platform compatibility with Windows/Mac computers.

Mode 1: Expanding the NAS with new volume

Mode 2: Work as backup destination for snapshot replica



Cost-effective 2.5GbE & 10GbE NAS

	O O O		ONID		
NAS model	TS-431X3	TS-431X2	TS-431P3/231P3	TS-431P2/231P2	
Processor	AnnapurnaLabs AL-314 Quad-core 1.7 GHz CPU				
SKUs	• TS-431X3-4G	• TS-431X2-8G • TS-431X2-2G	 TS-431P3-4G TS-431P3-2G TS-231P3-4G TS-231P3-2G 	 TS-431P2-4G TS-431P2-1G TS-231P2-4G TS-231P2-1G 	
10GbE port	1 x 10GbE SFP+	1 x 10GbE SFP+			
2.5GbE port	1		1		
GbE port	1	2	1	2	
Lockable drive trays	Yes		Yes		

Optional 3-year extended warranty purchase for a total of 5 years

Ordering information: LIC-NAS-EXTW-GREEN-3Y



QNAP

TS-x31P3 & TS-431X3

The affordable choice for quad-core 1.7GHz NAS with 2.5GbE and 10GbE.

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