QNAP

TS-431XeU/ TS-x31P2/ TS-431X2

Snapshot supported ARM NAS, protect data from Ransomware

1.7 GHz 4 cores

Hardware Encryption

QNAP 2017

Quad core/10GbE Ready NAS

TS-231P2-1G
1GB RAM

TS-231P2-4G
4GB RAM

TS-431P2-1G
1GB RAM

TS-431P2-4G
4GB RAM

10GE SFP+

TS-431X2-2G
2GB RAM

TS-431X2-8G
8GB RAM

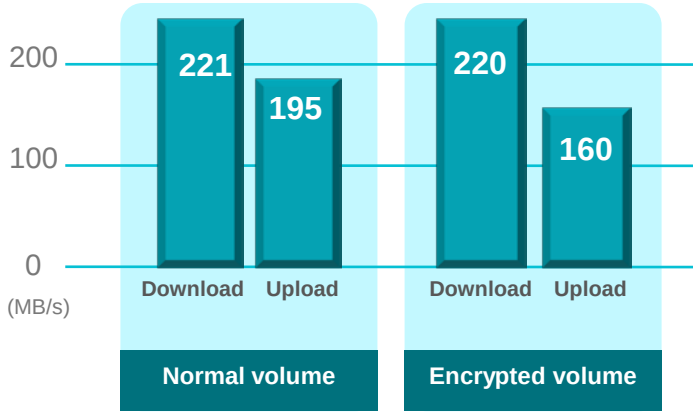
TS-431XeU-2G
2GB RAM

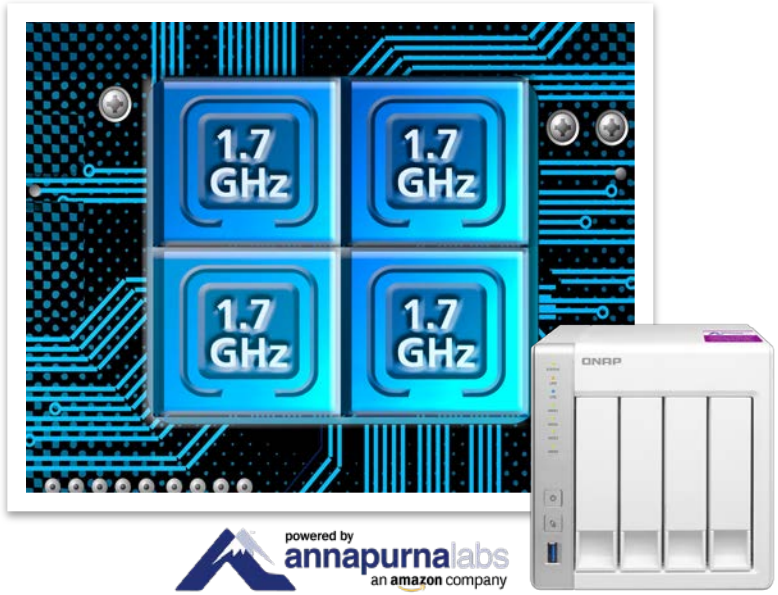
TS-431XeU-8G
8GB RAM

Quad-core 1.7 GHz, with Encryption Engine

Annapurna Labs Alpine AL-314

TS-431P2 (2 x GbE)





Tested in QNAP Labs. Figures may vary by environment

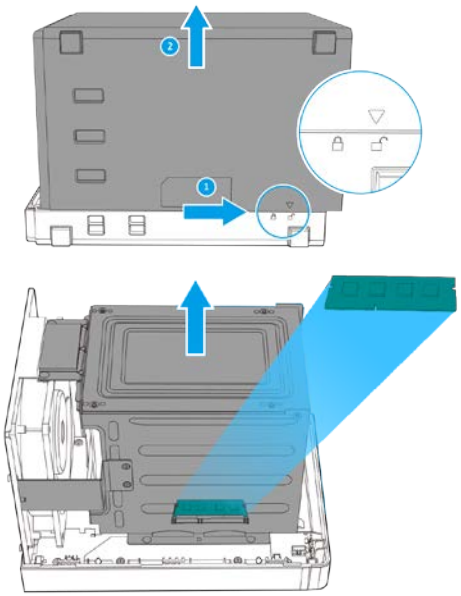
Test environment:
NAS operating system: QTS 4.3 (TS-431P2)
Volume type: RAID 5; 4 x Intel SSD S3500 240G

Client PCs:
Intel® Core™ i7-6770 3.40GHz CPU; 32GB RAM; Windows® 10 64-bit;
10GB file transfer by Robocopy

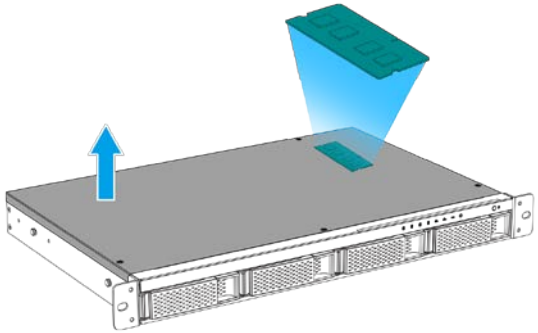
BIG THiNK

Memory Upgradable to 8GB DDR3 SODIMM

TS-231P2 TS-431P2 TS-431X2



TS-431XeU



QNAP Accessory

2GB、4GB
8GB memory

* Certain screws need to be removed.

More powerful applications are available

All models

Container Station
Light virtualization

≥ 2GB memory

Qsirch
Search engine

Qfiling
File organization

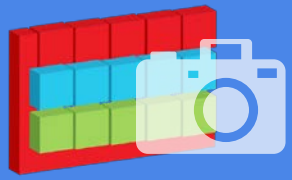
≥ 4GB memory

Snapshot
Data protection

Enable snapshot with 4GB memory

Snapshot

Volume Snapshot



Block-based iSCSI LUN Snapshot

Recovery

Local Restore

- Revert the whole volume/LUN
- Restore selected file
- Copy & paste in File Station

Remote Restore

- Snapshot Replica
- Snapshot Vault
- Backup Snapshot Vault

* Up to 64 snapshots per volume/LUN and 256 snapshots per NAS.

TS-231P2 I/O highlights

LEDs:
STATUS, LAN,
USB, HDD1-2

2 x SATA 6Gb/s
SSD or HDD slots

Power button

USB 3.0 port &
one-touch-copy
button

7cm system fan

Reset button

2 x GbE RJ-45 ports

2 x USB 3.0 ports

Kensington
security slot

BIG THiNK

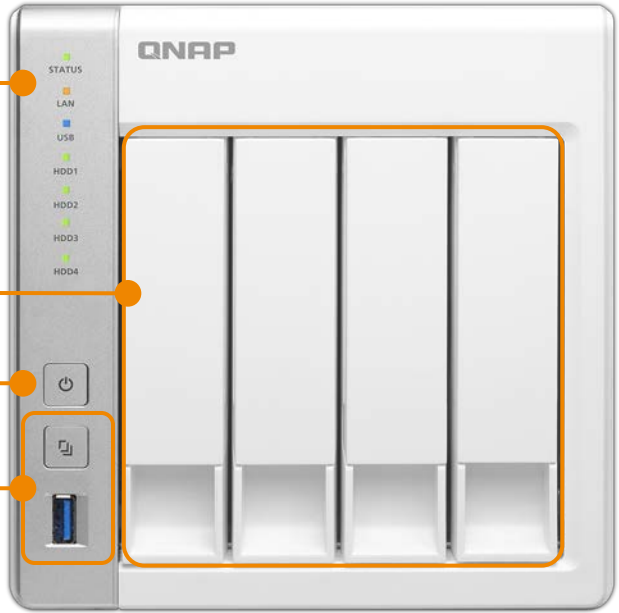
TS-431P2 I/O highlights

LEDs:
STATUS, LAN,
USB, HDD1-4

4 x SATA 6Gb/s
SSD or HDD slots

Power button

USB 3.0 port
& one-touch-
copy button



12cm system fan

Reset button

2 x GbE RJ-45
ports

2 x USB 3.0
ports

Kensington
security slot

BIG THiNK

TS-431X2 I/O highlights

LEDs:
STATUS, LAN, USB, HDD1-4

4 x SATA 6Gb/s SSD or HDD slots

Power button

USB 3.0 port & one-touch-copy button

12cm system fan

Reset button

Built-in 1 x 10GbE SFP+ port

2 x GbE RJ-45 ports

2 x USB 3.0 ports

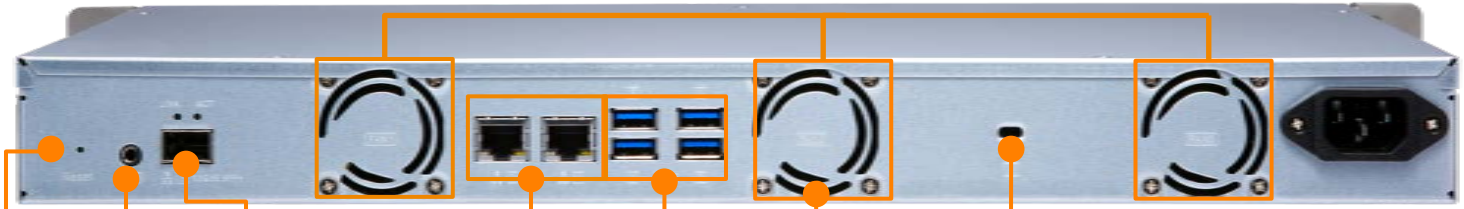
Kensington security slot

TS-431XeU I/O highlights

Individual GbE & 10GbE LED on the front panel

Power button

4 x SATA 6Gb/s SSD or HDD slots



Reset button

Console port

Built-in 10Gb SFP+ port

2 x GbE RJ-45 ports

4 x USB 3.0 ports

4cm system fan

Kensington security slot

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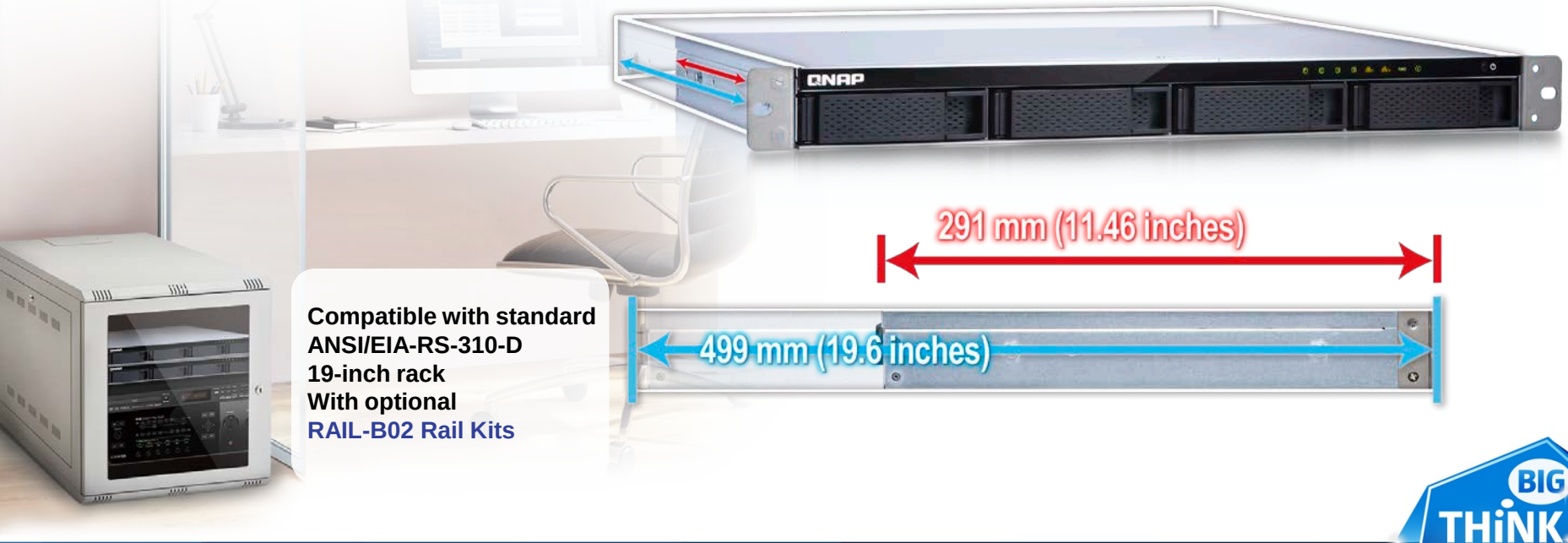
QNAP 2017

Deployable short-depth chassis TS-431XeU

12-inch depth, **40%** less than trad chassis



Compatible with standard
ANSI/EIA-RS-310-D
19-inch rack
With optional
RAIL-B02 Rail Kits

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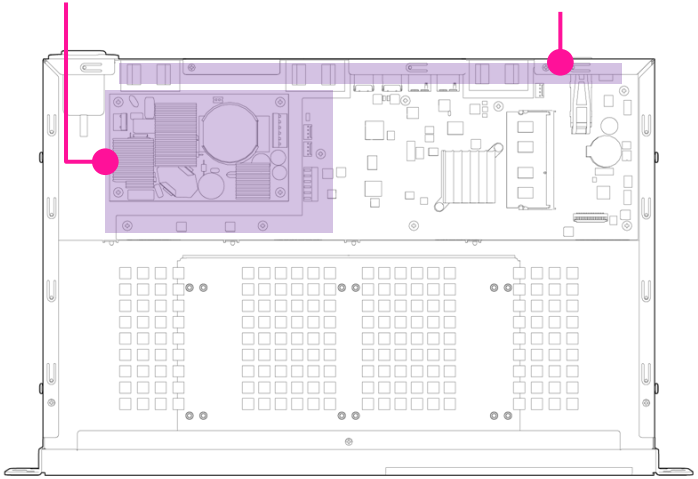
Environment friendly design of TS-431XeU

100W open frame, noise-reduced, fanless PSU

Three 4cm quiet system fans



Power consumption

In operation	HDD sleep
30.99W	12.42 W
36.99W *	22.43W *

* reference 1U server

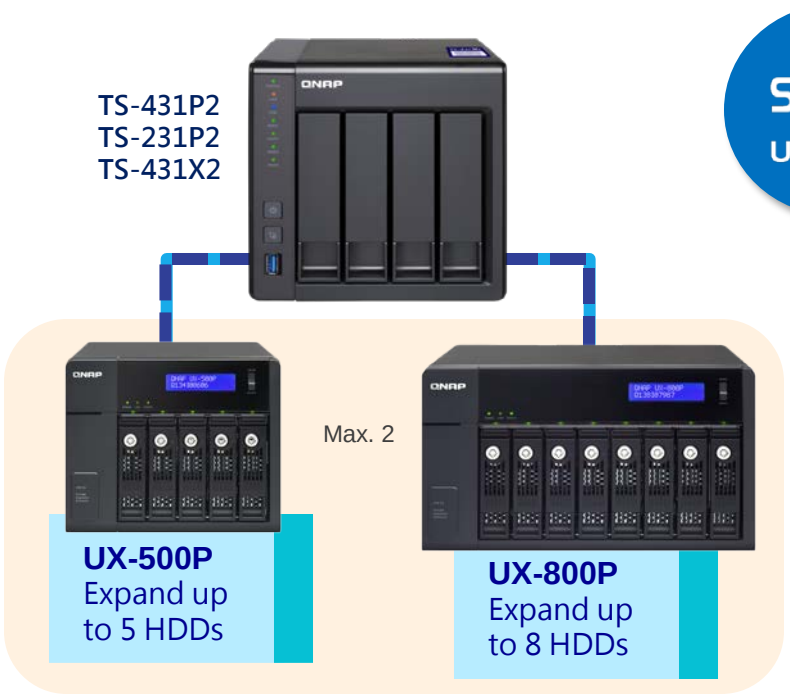
Noise level

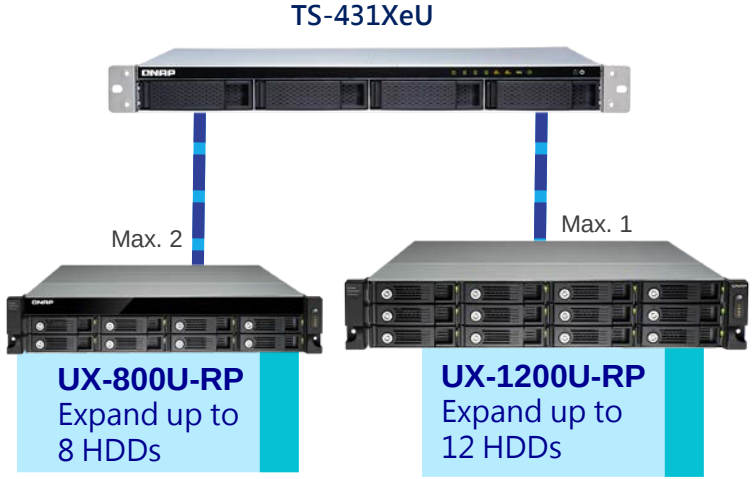
20.3 dB(A)
37.7 dB (A) *

* reference 1U server

- Power consumption is measured when fully loaded with 2TB NAS drives
- Noise level test environment:
  Refer to ISO 7779 ; Maximum HDD loaded ; Bystander Position ; Average data from 1 meter in front of operating NAS.(Using TS-431XU as reference of 1U single-PSU rackmount server)

Online capacity expanding via USB JBOD

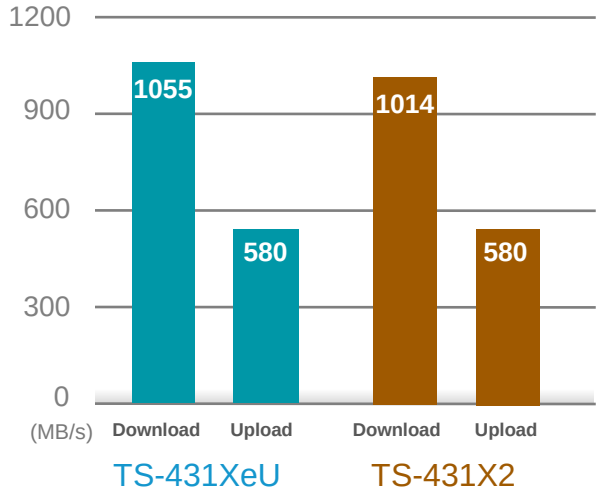




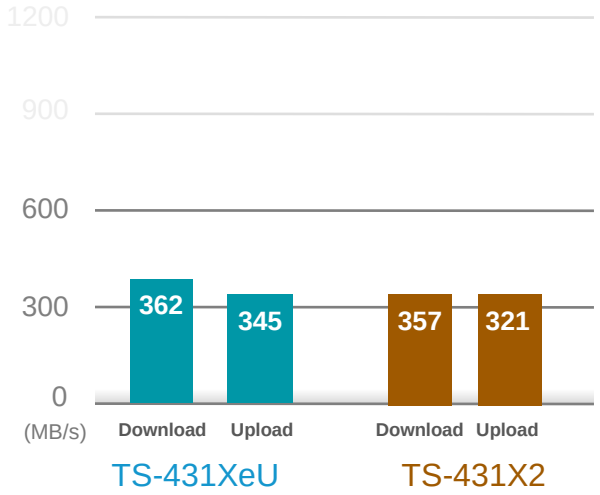
* When there are more than 16 disks (including NAS and expansion enclosure(s)), it's recommended to upgrade system memory to at least 4GB.

Cost effective high-speed 10GbE environment

10GbE x1



10GbE x1
(Encrypted volume)



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Windows® 10 64-bit; 10GB file transfer by Robocopy

BIG THiNK

Collaboration and backup with 10GbE

Cost effective 10GbE collaboration & backup network environment!

10GbE switch

TS-431X2 / TS-431XeU

Video Surveillance Solutions

QNAP Systems, Inc.

24x7 professional surveillance management

Surveillance Station 5.1

Recording channel

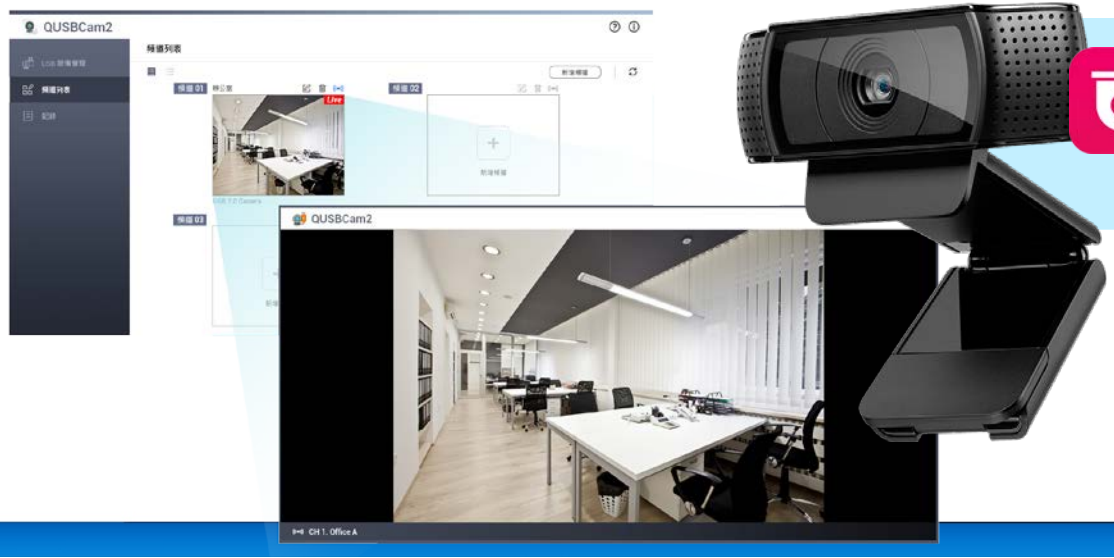
TS-231P2	TS-431P2
free: 2	maximum: 25

TS-431X2	TS-431XeU
free: 2	maximum: 30

Turn an USB camera into an IP camera

QUSBCam2

View instant streaming online from a UVC compatible USB camera with 1080P



Surveillance Station 5.1

Record & **Replay** video by MPEG

Qphoto 3

Your photos on the move

QNAP Systems, Inc.

Collect the stunning moments of vacation.

The Sakura is gorgeous, I’m gonna shoot a video!

There is only 500MB available, I can’t take more videos…

4K video: 375MB/min

Then the tragedy happened at that night…

Phone’s in the toilet!

- My phone was gone…
- Precious pictures, videos, and memories were gone…
- The friendship seemed to come to an end…

Photo/Video Instant Upload, expanding your storage

Before

I can’t have more photo or video.

Now

Qphoto

4G / Wi-Fi

Instantly uploading the photos and videos to the NAS when recording.

BIG THiNK

QNAP 2017

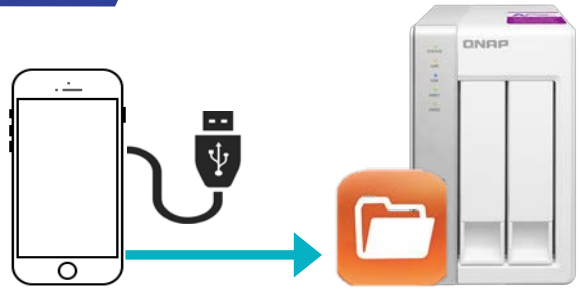
Bi-directional Mount in two steps

Photo Station 5.4/ Qphoto 3 - Photo/Video Instant Upload

1. Open Qphoto and click “take photos” or “record videos”
2. Select a destination folder. Start taking(recording)!

QTS 4.3.4 File Station - Mobile phone mounting.

1. Connect mobile phone and NAS with USB connector.
2. Open File Station and start transfering the files!



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QNAP
THANK YOU