QNAP

4-bay, quad-core, with M.2 SSD for Qtier, and Thunderbolt 3 & 10GbE for versatile high-speed applications

TS-453BT3

HDMI HIGH DEFINITION MULTIMEDIA INTERFACE · Windows Server 2012 R2 Certified · vmware READY · citrix ready · dlna · intel CELERON inside · THUNDERBOLT™

Why not taking advantages?

Apple MacOS

>100 laptops, desktops, and motherboards

THUNDERBOLT™

Microsoft Windows

1-port 10GBASE-T adapter is only US$100

10GBASE-T

QNAP 2017

My first NAS for both editing & backup

TS-453BT3-8G

4-bay, 8GB dual-channel RAM
(2 x 4GB DDR3L-1866)

intel CELERON inside

J3455
Apollo Lake SoC

4-core **1.5** GHz
Max **2.3** GHz

What's more, advanced HW & SW for fast applications!

THUNDERBOLT™

10GbE

M.2 SSD slots

4K 2K UHD
Q vPC
Technology

HDMI™
HIGH-DEFINITION MULTIMEDIA INTERFACE

BIG THiNK

TS-453BT3 Front Side

4 x 3.5”/ 2.5”SATA 6Gb/s HDD/SSD slots

OLED status display & capacitive touch buttons

Power button

LEDs w/ adjustable brightness:
Drive、Status、LAN、USB

2 x Thunderbolt 3 ports

USB 3.1 Gen 1 & copy button

Lockable cover

OLED and touch buttons

Capacitive touch buttons

Dust-proof, easy maintenance

0.96”OLED display

Wide-angle view, thin panel, Highly responsive, cuts 60% power usage

TS-453BT3 Rear Side

2 x M.2 2280 SATA SSD Slots & 1 x 10GBASE-T Port (PCIe 2.0 x 2 slot)

Kensington security slot

2 x 3.5mm dynamic Mic In

1 x 3.5mm line out

2 x 4K HDMI v1.4b output

4 x USB 3.1 Gen 1

2 x Gigabit LAN port

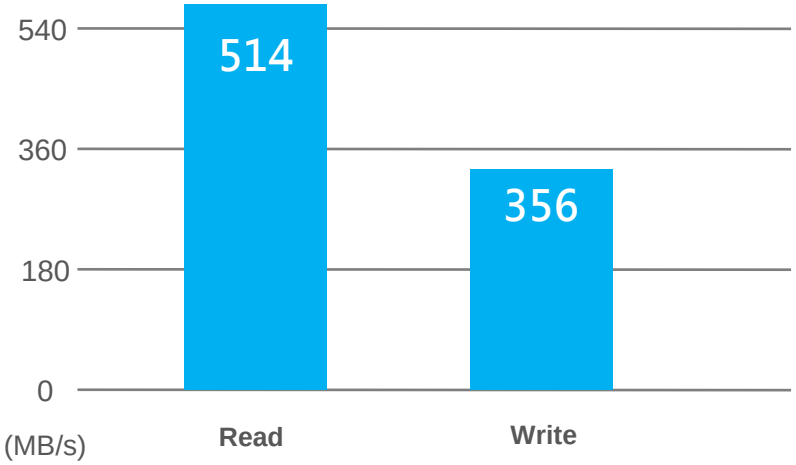
DC 12V power input

2 watt seaker + T.I. amplifier
- System status alert
- Music playback

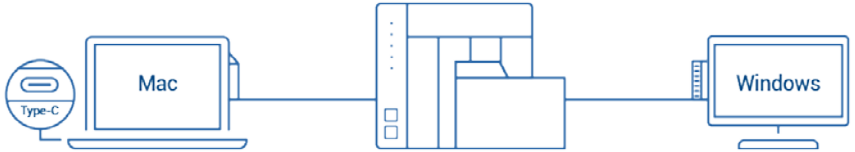
12 cm high reliability double ball bearing quiet fan

Faster processing of multimedia projects

MacBook Pro w/ AJA System Test Tool



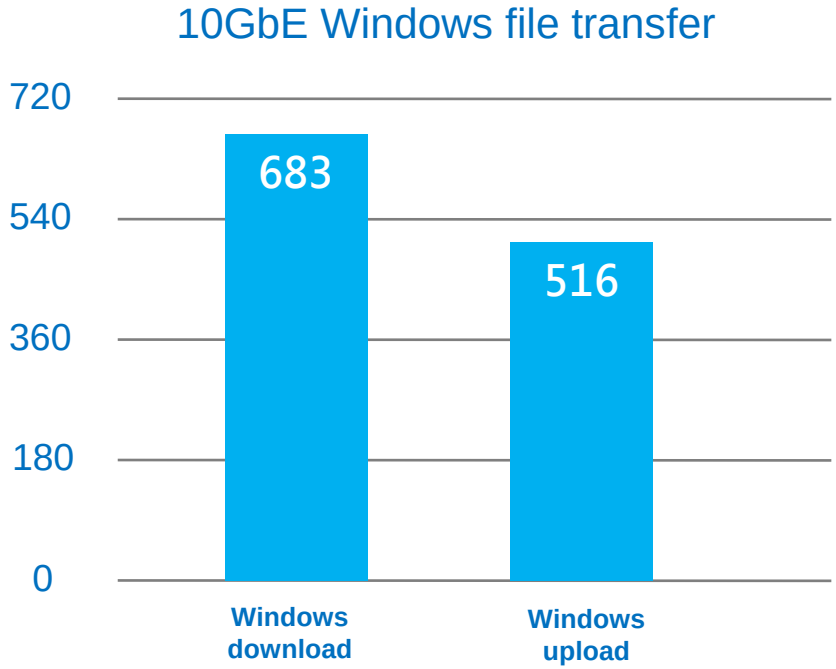
THUNDERBOLT™



Tested in QNAP Labs. Figures may vary by environment.
NAS：QTS 4.3.3, RAID 0 w/ 4 x Intel SSDSC2BB240G4 SSD

Client: Windows 10, Intel Core i7-6700 3.4 GHz,
32GB RAM, QNAP LAN-10G2T-X550 card

10GBASE-T for improved performance



Hybrid Backup Sync

Snapshot

File sharing & virtualization

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Instantly view your 4K projects

750MHz
9th Gen Intel
HD Graphics 500

4K UHD
2 x HDMI v1.4b
3840 x 2160, 30Hz

H.265/H.264
Up to 8-bit HEVC 4K
Playback & transcoding

Includes **QButton**
supported IR remote control!

The supported video and audio may vary depending on the software, hardware, and the environments.

QNAP 2017

10GbE/M.2 SSD super-charge performance

Smart & quite fan

Auto-adjust based on SSD & system temperatures

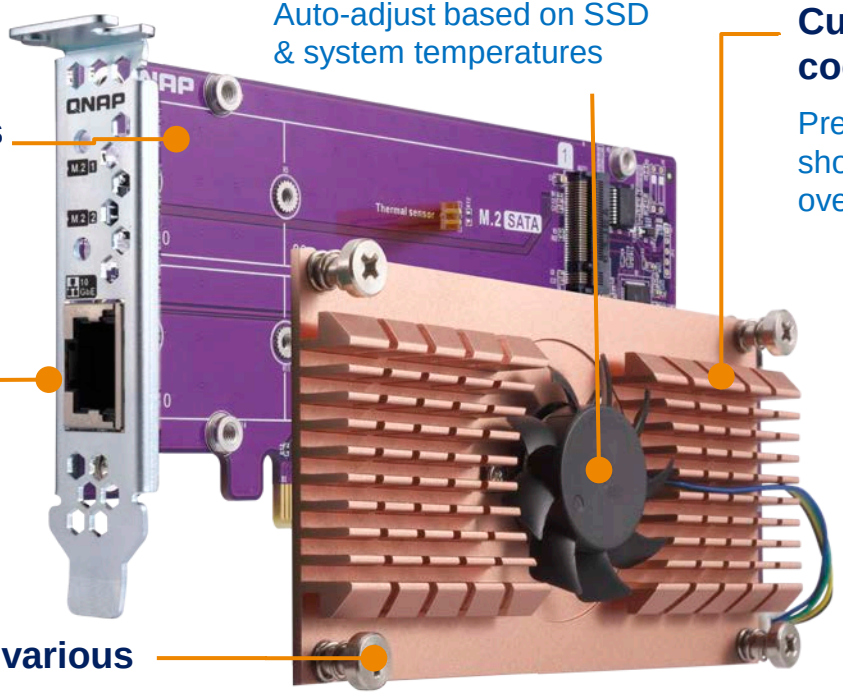
2 x M.2 SATA SSD slots

- Supports M.2 2280 & independent status LEDs
- Set up **SSD cache** or **storage volumes**

10GBASE-T RJ45 port

10/5/2.5/1Gbps & 100Mbps

Adjustable screws for various SSD thickness

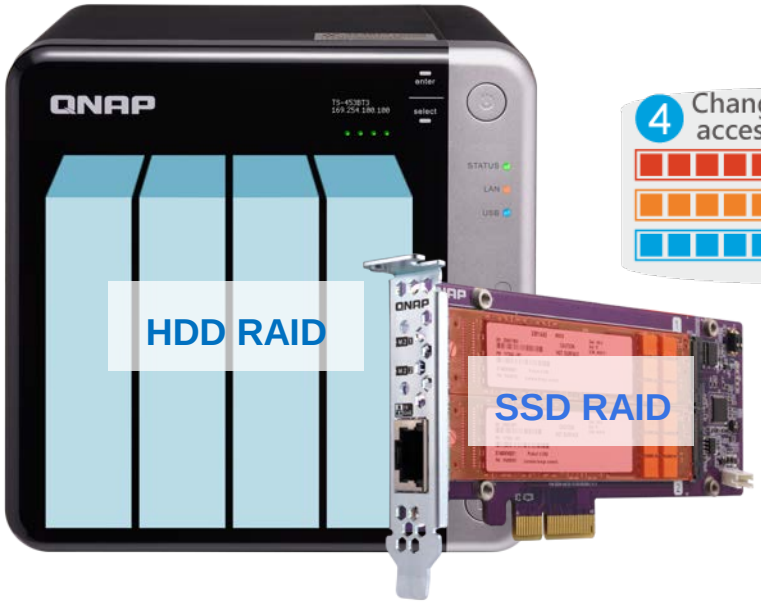


Custom-made aluminum-alloy cooling module

Prevent degraded performance or shorted life span resulted from SSD overheat

TS-453BT3 comes with its dedicated QM2 card: QM2-2S10G1TB01

Qtier™ Auto Tiering



- Frequently-accessed data
- Infrequently-accessed data
- Rarely-accessed data

1 Before tiering:
Frequently-accessed data performance is not optimized

2 Start data tiering

3 After tiering:
Frequently-accessed data performance is optimized

4 Changes in data access patterns

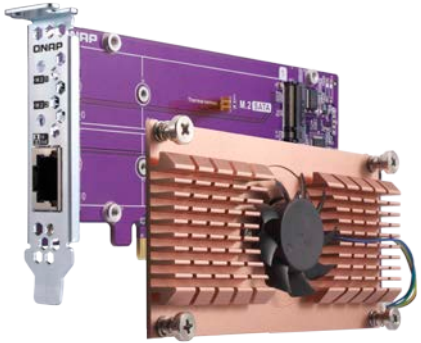
Qtier
Qtier operation mode

BIG THiNK

TS-453BT3 Live Demo

M.2 SSD cache and volume setup

1. Install M.2 SSD on the QM2 card
2. Setup M.2 SSD cache or volume



Thunderbolt 3 connection & data transfer

1. Create Thunderbolt connection by Qfinder Pro
2. Begin to transfer data

THUNDERBOLT™

QButton

Get things done with a single push of button

Customize actions of buttons

Play your favorite music playlist with a single button or set other buttons to play the previous or next song.

View pre-selected channels on Surveillance Station for quick surveillance monitoring.

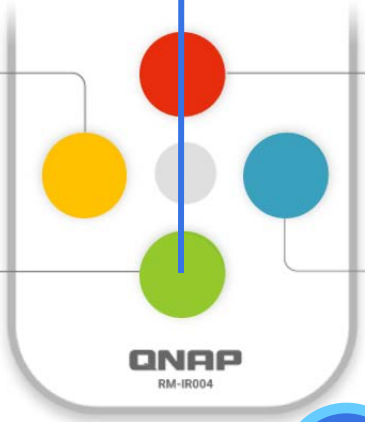
Set a button to restart or power off your NAS for greater convenience.

Simple installation and setup!

1. Install QButton in App Center
2. Open QButton and complete the 3 steps initialization wizards
3. Press red button on remote control
4. Enjoy QButton default music play list

Easy and intuitive user interface

01 Click the color button to open create rule page



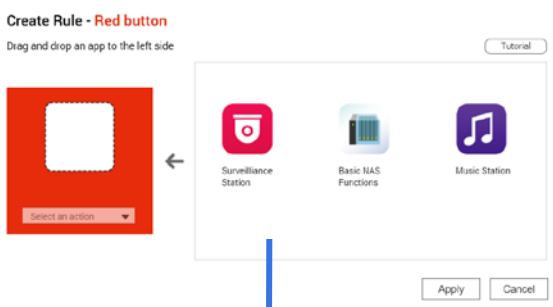
Music Station
Next Song

Music Station
Stop playing music

Music Station
Play music

NAS
Restart NAS

02 Enable and disable rules



03 Drag and drop an app to the left box

A single push of button does it all

Supported model

TS-X53B
TS-453Bmini **
**When used with RM-IR004 remote
TVS-X73
TVS-X82 (1282T3, 882BR, 882BRT3, 882ST2, 882ST3)

Models to be supported **

TS-X53A
TS-X51A
TS-X51+
TVS-X82 (1282T, 882T, 682T, 1282, 882, 682)

** When used with RM-IR004 remote

Quick Demo

How to choose app for rule creation?

- Press blue button to open create rule page
- Drag and drop another app to the left box to replace previous app
- Select action and apply.

How to choose another playlist?

- Press red button to open create rule page.
- Select Music 1 as another playlist
- Apply settings

How to select channel?

- Press yellow button to open create rule page.
- Select another channel to QButton.
- Apply

Thunderbolt NAS

Application

A Complete Thunderbolt Product Line

THUNDERBOLT™

TS-453BT3

TVS-x82T series

TVS-1582TU

TVS-882ST3

BIG THiNK

Cross-platform Collaboration

For Thunderbolt 2 Mac/PC

Thunderbolt 3 (USB-C) to Thunderbolt 2 Adapter (Apple)

USB 3.1 Gen 2 High Speed Data Import

My TS-453BT3

Portable USB 3.1 SSD

Friend's Computer

USB 3.1 Card Reader

DSLR Camera

A Faster, Bigger and Safer Home for Data

30TB

TS-453BT3

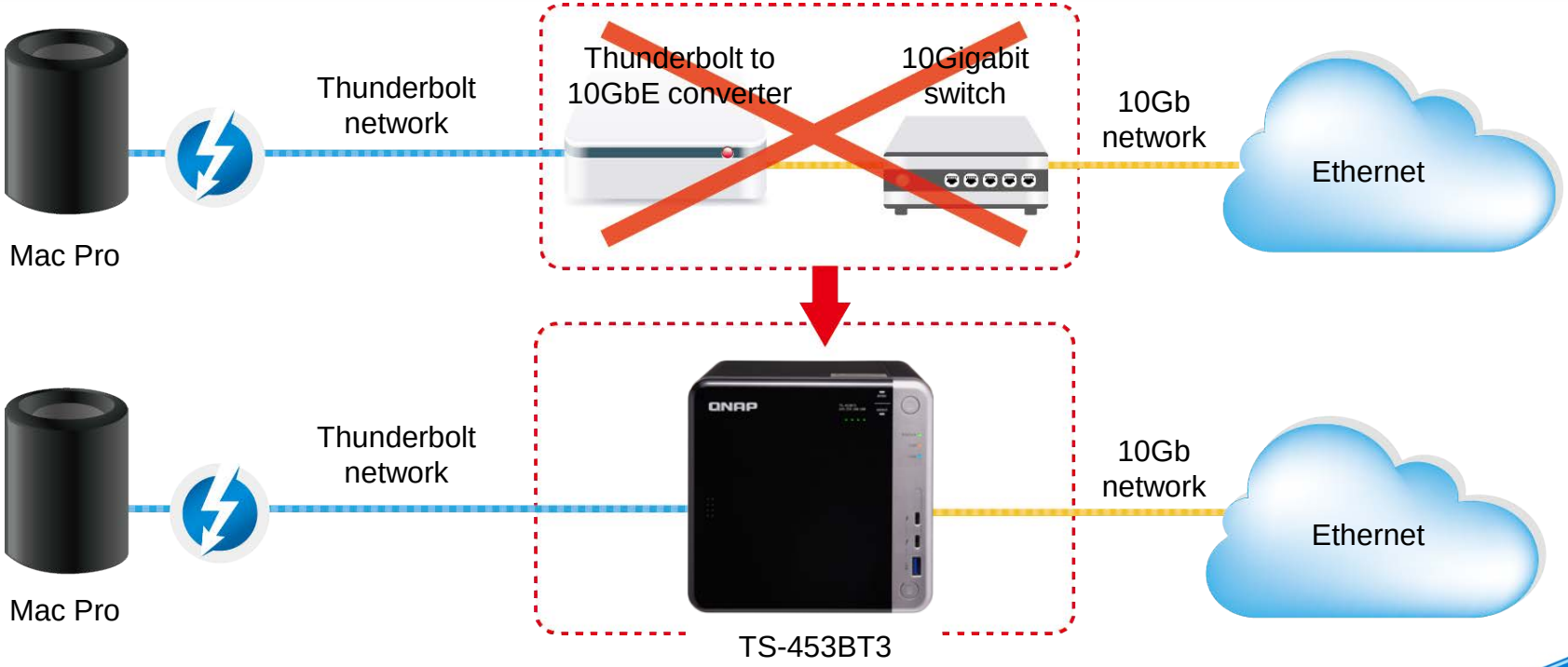
3TB

iMac 27”

- ✓ Thunderbolt 3 high speed accessing
- ✓ Expand **10X** capacity
- ✓ RAID data protection: **PRICELESS**
- ✓ Personal cloud drive

BIG THiNK

Thunderbolt to Ethernet (T2E) Technology



QNAP 2017

Photographer's Best Partner

"Using the QNAP TVS-1282T3 and its Thunderbolt™ 3 interface, I'm much more efficient in my workflow. Compared to my previous NAS, that was connected to my network with 10 Gigabit, I now benefit from an 800% to 1000% faster data transfer rate."

……

Falco Peters

"If you want to focus on getting the creative job done, QNAP devices are great partners. QNAP gives us a complete solution for all network storage and sync needs, in one easily-manageable ecosystem."

……

Martin Edström

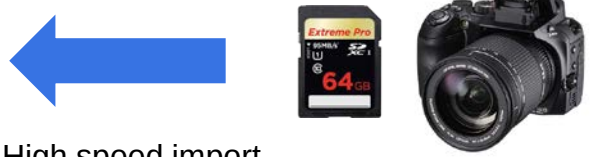
"We have been able to condense a rather eclectic collection of different hard drives and storage systems into one single unit. This makes data-wrangling a whole lot easier."

……

Nick Rains

Easy to Carry in Your Journey

Outdoor



High speed import and backup

USB card reader required

Office

Secondary backup

Collaboration

BIG THiNK

2017 Shell Eco-Marathon

- **12+** 4K high resolution camera
- **5** editors working concurrently
- 5TB off-site backup
- Off-site collaboration

Perfect Workflow

Detroit

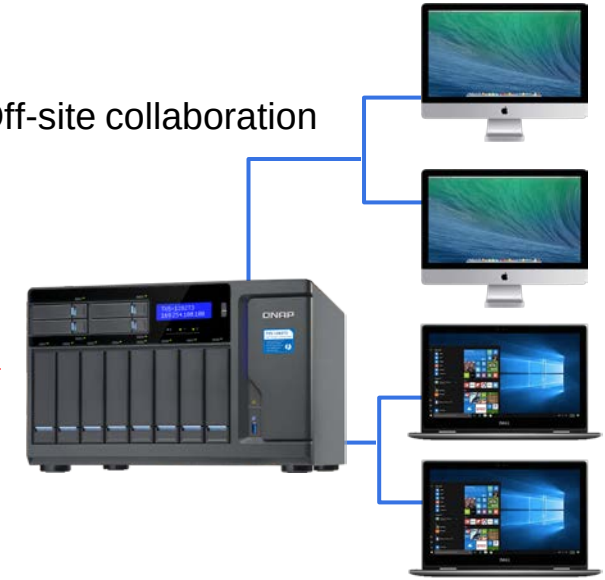
1 High speed ingest/ backup

2 Collaboration

3 Remote backup (QNAP RTRR)

New England

4 Off-site collaboration



QNAP
Thank You