#### QNAP

# CNA-UC5G1T

USB 3.0 Type-C to 5G/2.5G/1G

**QNAP Network Adapter** 

Easily add extra network connectivity to your PC/NAS





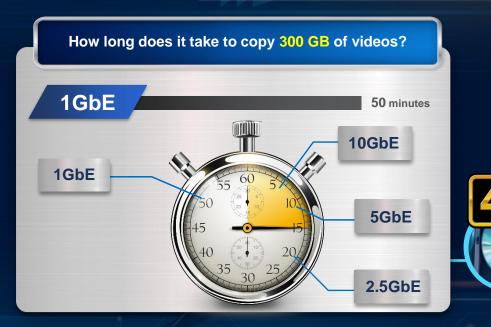
# CNA-UC5G1T

- 1 Enough speed?
- 2 Specs and applications
- 3 Add 5GbE to NAS





### How slow is the 1GbE actually?









### 10GbE is no longer data center only

NAS and computers 10GBASE-T or 5GBASE-T 0GBASE-T Apple iMac Pro QNAP TS-963X MSI GT75VR

**Routers** and switches **10GBASE-T or 5GBASE-T** QNAP QSW-804-4C Netgear Nighthawk AX12

How can your computer effectively connect to the 5GbE and 10GbE environment?

Source: Netgear.com; Aquantia.com & QNAP.com



# Wired LAN port is being removed

Ultra-portable computers no longer have a wired LAN port and can only rely on wireless network. However, a USB port is still being preserved for connecting peripherals.



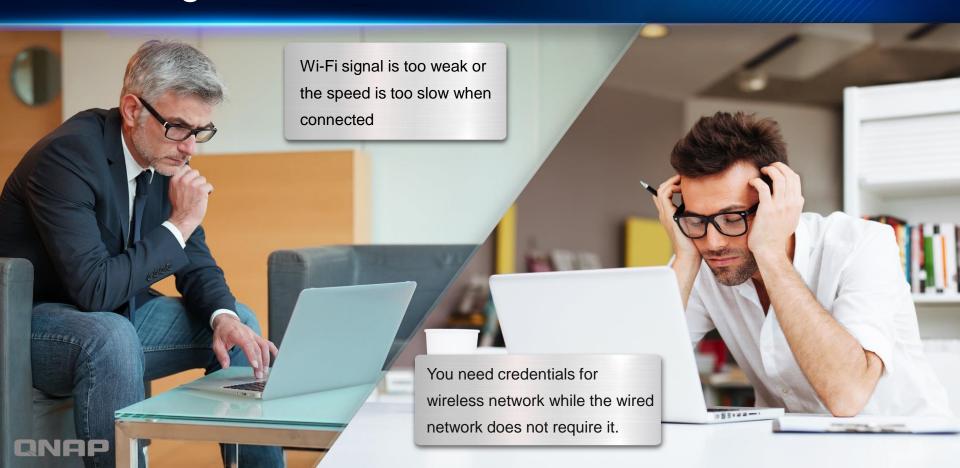


MacBook Pro

Surface Pro 6



## Weak signal or need authentication in WLAN?



#### QNAP

# CNA-UC5G1T

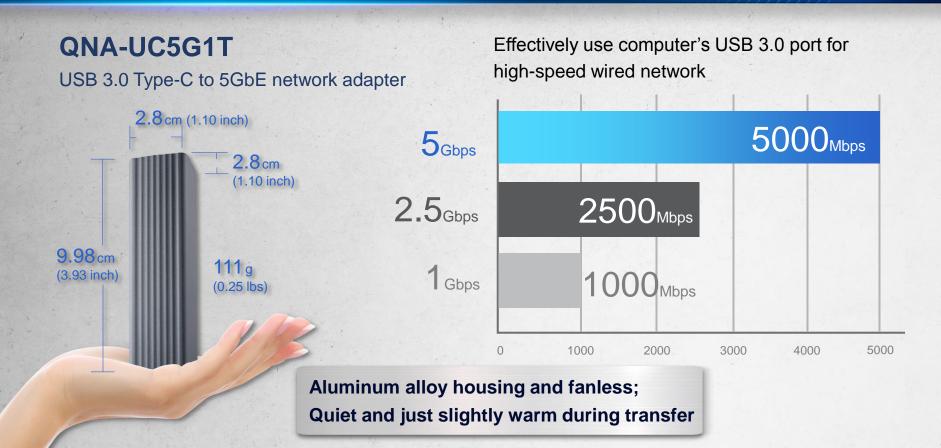
USB 3.0 Type-C to 5G/2.5G/1G

Overview and applications



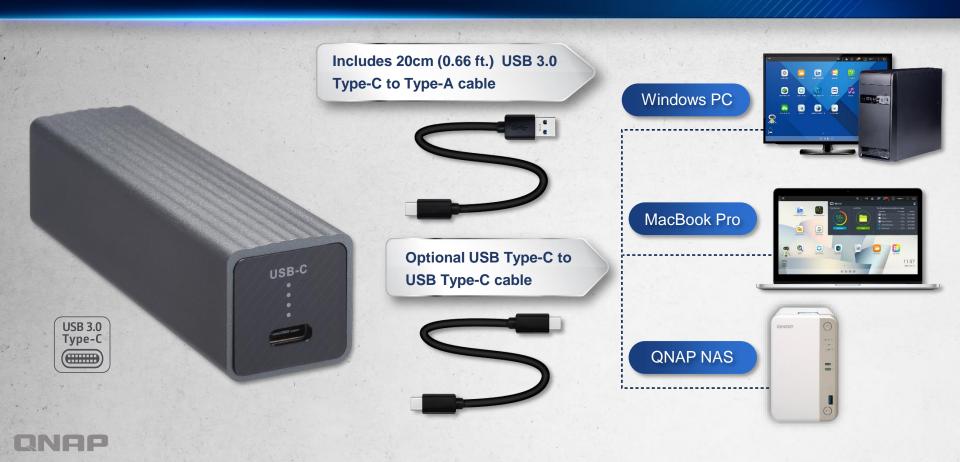


## Small investment to go beyond 1Gbps





## USB 3.0 Type-C for easy installation





### Package contents and accessories

#### Included











QNA-UC5G1T **USB 3.0 to** 5G/2.5G/1G/100M network adapter

20cm USB 3.0 Type-C to Type-A cable Ordering P/N: CAB-U35G02MAC

Quick installation guide (QIG)

100cm USB 3.0 Type-C to Type-A cable Ordering P/N: CAB-U35G10MAC

**Optional** 

100cm USB 3.1 Gen2 Type-C to Type-C cable Ordering P/N: CAB-U310G10MCC



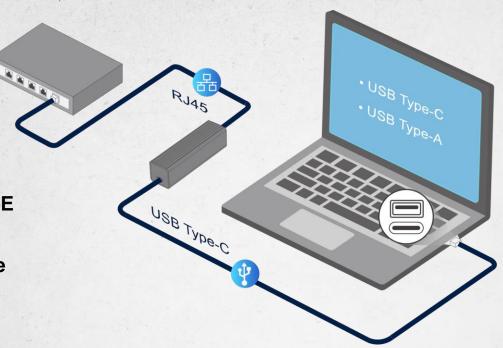
## No extra power supply needed

# QNA-UC5G1T USB 3.0 to 5GbE

Save cost and easily build 5GbE/2.5GbE environment

Portable size for productivity anywhere

Clean design to fit in any environment

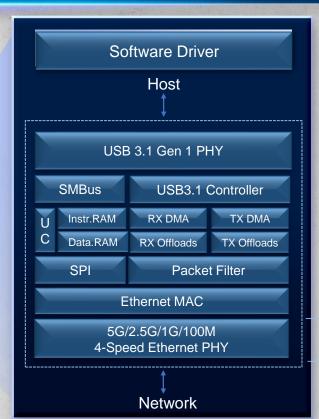


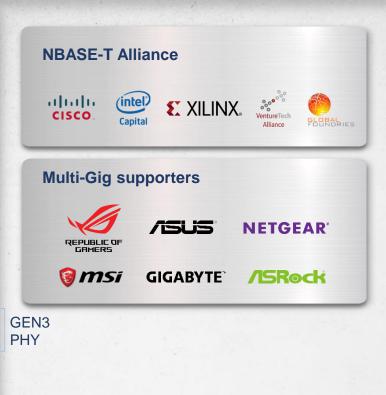




## AQC111U: USB and 5G single chip solution









#### Upgrade to 2.5G & 5G with existing cable wiring

No need to re-wire your cables, the existing wiring already support up to 5Gbps.

Your existing cables already support

Multi-Gigabit NBASE-T standard

	CAT 5e	CAT 6	CAT 6A
100M	✓	✓	✓
1G	<b>✓</b>	✓	✓
2.5G	✓	✓	✓
5G	✓	✓	✓

Speed: 5G = Green 2.5G/1G/100M = Amber

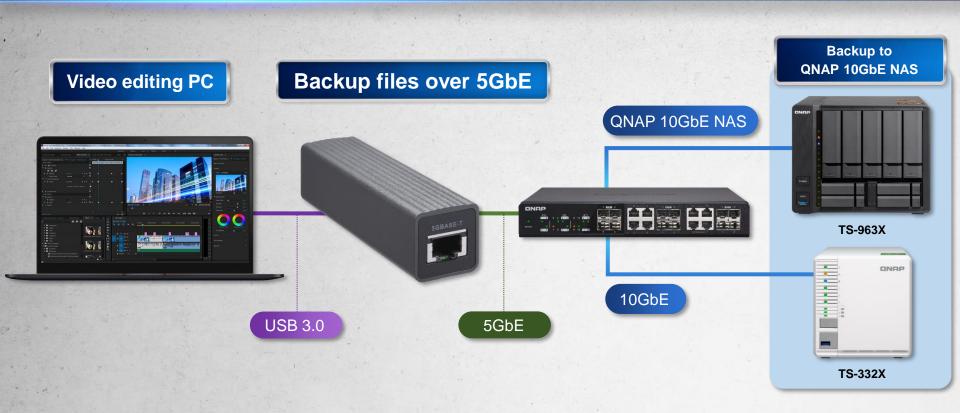


Link/Act LED





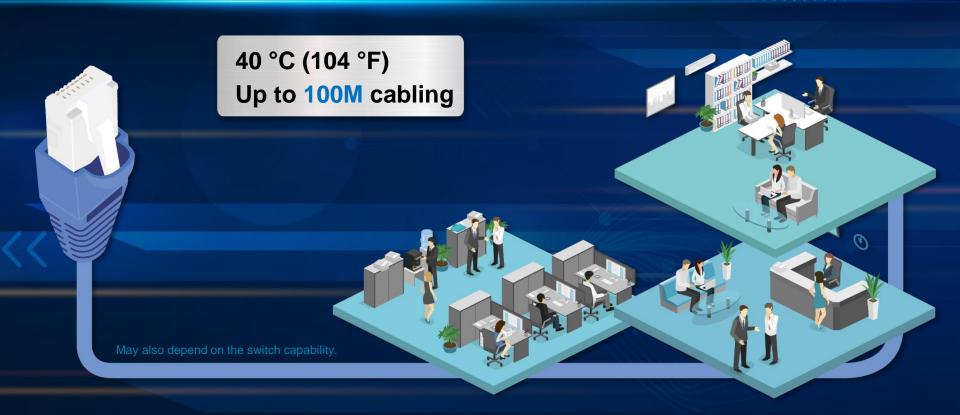
### Application: USB to 5GbE backup







## Up to 100M long distance at 5GbE







# Get your LAN party started fast and easy





### Support Windows, macOS, Linux OS.



Windows® 10, 8.1, 8, 7 (32/64 bit)

Install QNAP driver



macOS X with native support

Coming soon from Apple! Follow QNAP product page for official support status



Linux kernel 4.4, 4.2, 3.12, 3.10, 3.2





#### Windows PC installation



#### Windows® 10, 8.1, 8, 7 (32/64 bit)

When connecting the QNA-UC5G1T to a computer that has no driver, the Windows File Explorer will show a virtual CD-ROM device which contains the driver installation program. You can download the latest driver file from https://download.qnap.com











#### Linux PC installation

#### Download the AQC 111U Linux driver from Aquantia website

Linux kernel 3.2, 3.10, 3.12, 4.2, and 4.4

AQUANTIA\*

MARKETS PRODUCTS COMPANY SUPPORT CONTACT SALES

DRIVERS

DEM PORTAL

SOFTWARE

WARRANTY

AQUANTIA

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PRODUCT REGISTRATION

SUPPORT CONTACT SALES

DEM PORTAL

SOFTWARE

WARRANTY

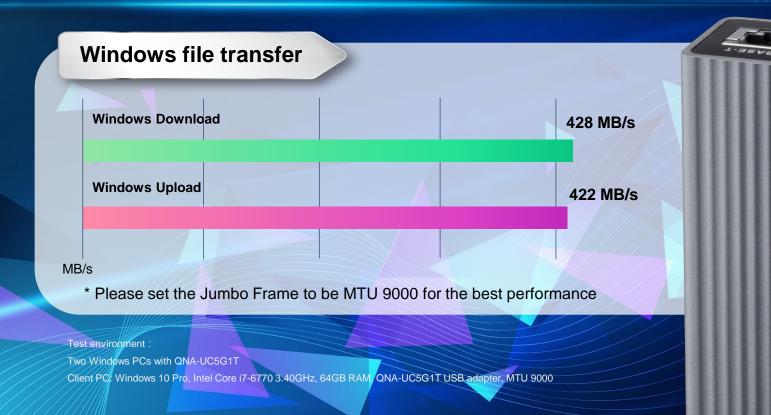
PRODUCT REGISTRATION

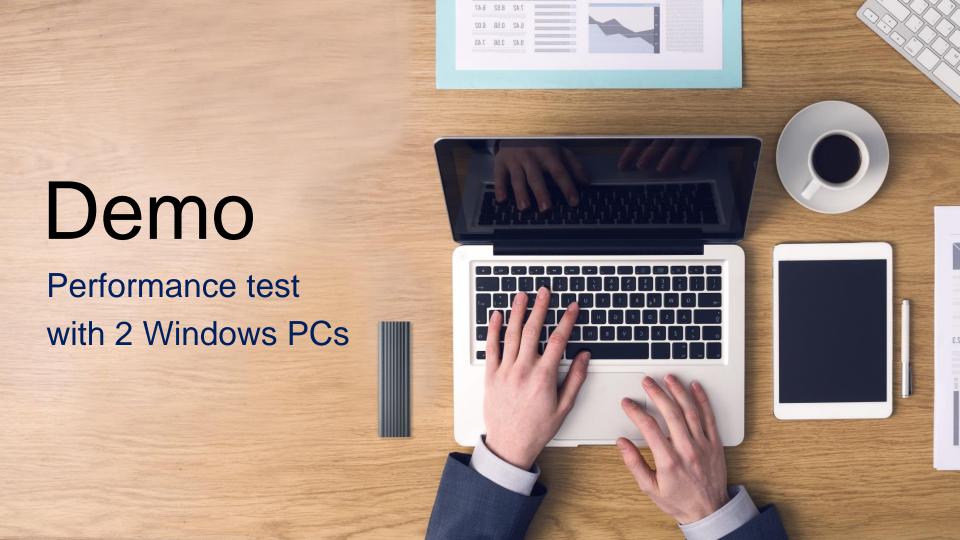
SOUTCE: Aquantia.com

https://www.aquantia.com/support/driver-download/



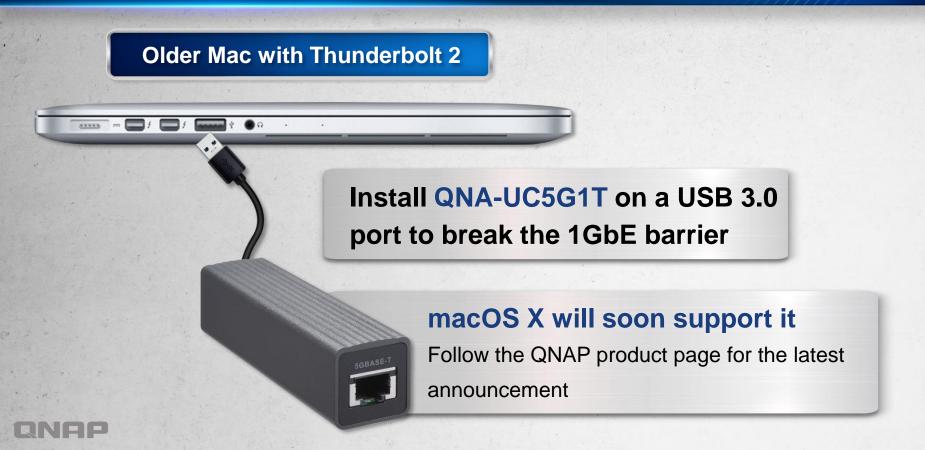
#### 4 times faster than 1GbE







# Older Mac gets 5GbE via the QNA-UC5G1T





### How to get high speed for Mac with Thunderbolt 3









#### Thunderbolt 3 to 10GbE is here

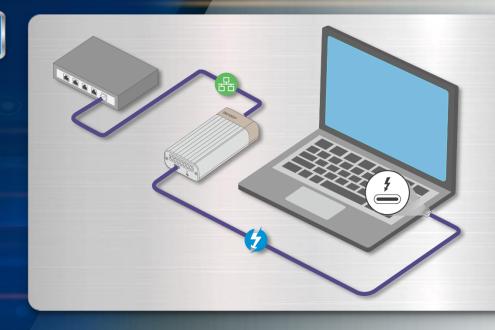
#### **QNAP Thunderbolt 3 to 10GbE adapter**

#### **QNA-T310G1T**

**QNA-T310G1S** 

Cost-effective Thunderbolt 3 to 10GbE adapter that empowers your Mac® or Windows® computers with blazing-fast 10GbE network connectivity using a Thunderbolt 3 Type-C port

- Reduce the cost for building 10GbE environment
- Portable design meets the flexible working conditions
- Sleek design





#### Thunderbolt 3 QNA series for 10GbE









10GbE NBASE-T RJ45 port

10Gbps/5Gbps/2.5Gbps/1Gbps/100Mbps multi-gigabit

10GbE SFP+ port

10Gbps





#### Power and speed indicators

# QNA-T310G1

Speed: 10G = Green 5G/2.5G/1G/100M = YLW



Link/Act LED

# QNA-T310G15

Speed: 10G = Green



Link/Act LED



Power





# Driver built-in for macOS - plug & play

# QNA-T310G1T







macOS 10.13.3 (or later)

Built-in driver for plug & play

MacBook Pro



**Driver installation required** 

QNA-T310G1T: AQC107

Windows

QNA-T310G1S: AQC100

\* QNAP NAS with QTS 4.4.1 will officially support the QNA series.





## Enable blazing-fast 10GbE connectivity

#### File transfer (1 x 10GbE)

Windows Download	1068 MB/s
Windows Upload	1069 MB/s

\* Please set Jumbo Frame to MTU 9000 for optimal performance.

10GbE Transfer

Test environment:

Server NAS: TS-677, QTS 4.3.4, , AMD Ryzen 5 2600, 3.40 GHz, 8GB RAM, RAID5, Samsung SSD 850 PRO

512GB \*6, QXG-10G1T & LAN-10G2SF-MLX,

Client PC: Windows 10, Intel Core i7-4770 3.40GHz, 32GB RAM, LAN: Thunderbolt 3, MTU9000



#### QNAP

# CNA-UC5G1T

High speed transfer with NAS

NAS to NAS application VJBOD (iSCSI JBOD)



#### QVA

Upgrade PC & NAS to 10GbE with QNAP PCIe adapters







- QM2-2S10G1T (2 x M.2 SATA SSD port)
- QM2-2P10G1T (2 x M.2 PCIe NVMe SSD port) 2-port M.2 2280 SATA/NVMe SSD with 1-port 10GbE adapter



QXG-10G1T
 1-port 5-speed 10GbE adapter
 (10G/5G/2.5G/1G/100M)



### Easy to install a 10GbE PCle adapter

1 Confirm the bracket type

2 Change the bracket

3 Install QXG-10G1T to NAS

E.x. TS-x77 series PCle slot 1 requires a full-height bracket









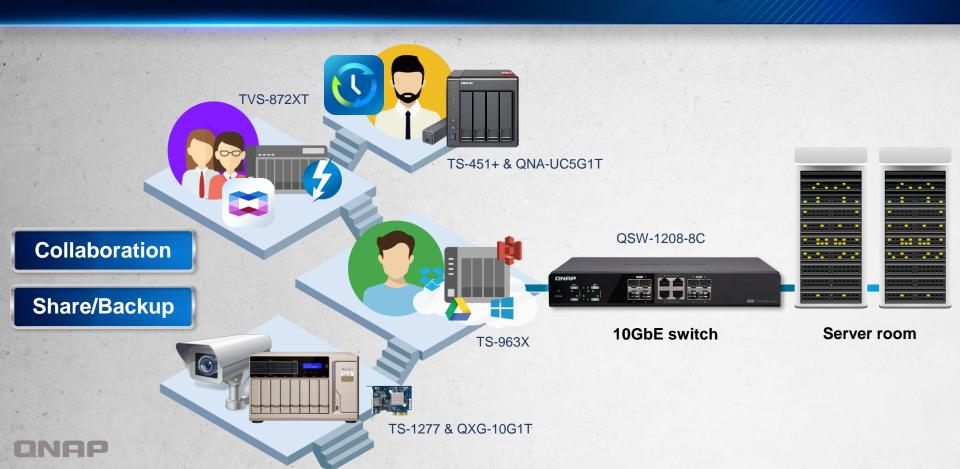


# Support all NAS with USB 3.0 and QTS 4.3.6



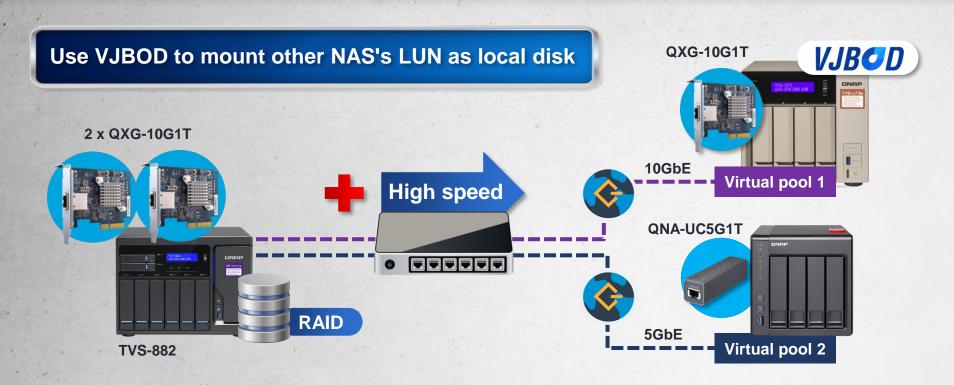


## Speed up file sharing between workgroups





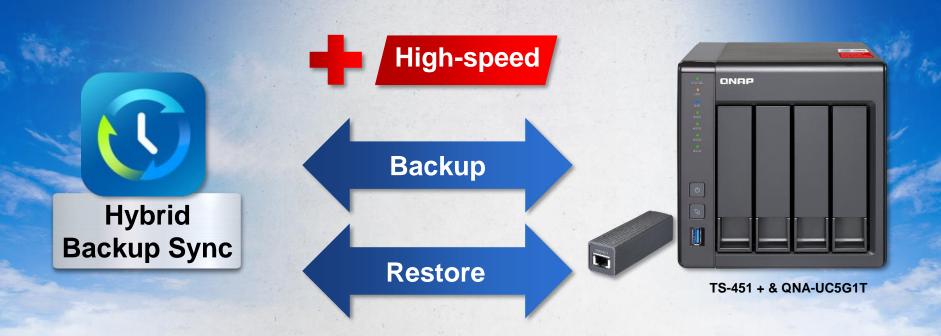
## Mount huge storage space with VJBOD







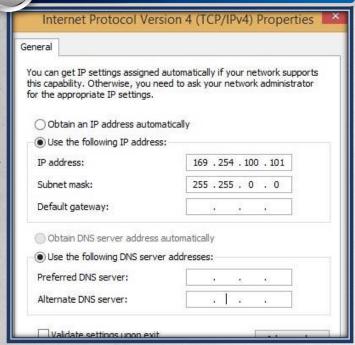
### Business-grade 5GbE disaster recovery solution





#### Connect PC and NAS with QNA-UC5G1T

#### 1 Modify interface settings



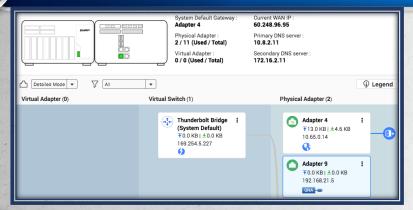




#### RVA

## Manage multiple NICs in Network & Virtual Switch

1 Check the topology in Network & Virtual Switch



2 Edit each NIC directly





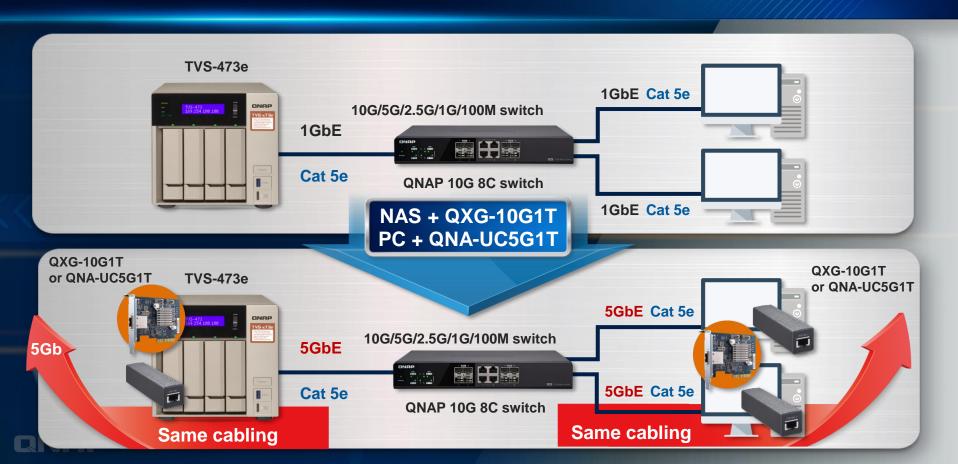
QTS does not support the following functions when a QNA device is connected:

- Port trunking
- DHCP server
- RADVD server
- · Static route



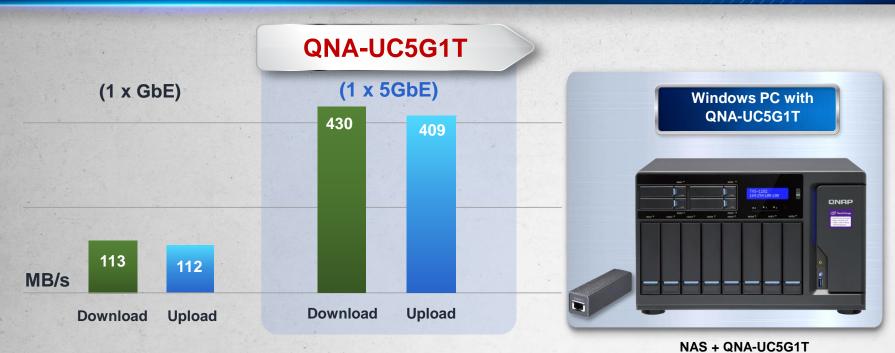


#### Upgrade from 1G to 5G with the minimum cost





#### 10GB file transfer on NAS



Test environment

NAS: TVS-1282, QTS 4.3.6

\_Volume type: RAID 0 w/ 2 x Samsung 860 Pro 512GB SSD

Client PC:

Intel® Core™ i7-6770 3.40GHz CPU; 16GB RAM; QNA-UC5G1T NIC ;

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







#### QNA series for 5GbE and 10GbE

# QNA-UC5G1T



Host with USB 3.0

5G/2.5G/1G/100M 4 speeds

**RJ45 NBASE-T connector** 







Host with Thunderbolt 3

10G/5G/2.5G/1G/100M 5 speeds

**RJ45 NBASE-T connector** 

#### QNA-T310G1T





Host with Thunderbolt 3

10G speed

SFP+ connector



#### QNAP

CNA-UC5G1T Let USB 3.0 high again

USB 3.0 Type-C to 5G/2.5G/1G/100M Multi-Gigabit network adapter

