

## QSW-M2106R-2S2T

L2 10GbE/2.5GbE Managed Switch

Upgrade network with multiple transmission speeds





10GbE



2.5GbE

2 in 1U / half-rackmount

### Increasing data size. Growing WiFi speed

- Video file/streaming
  - Video format evolution (720p $\rightarrow$ 1080p $\rightarrow$ 4K Ultra HD >8K UHD $\rightarrow$ 10K)

	1080p 60	4K ProRes HQ	4K RAW BMPC	8K RedCode
	ProRes HQ	24	24	Raw 75
File size per hour	223.77GB	318GB	741.6GB	7.29TB

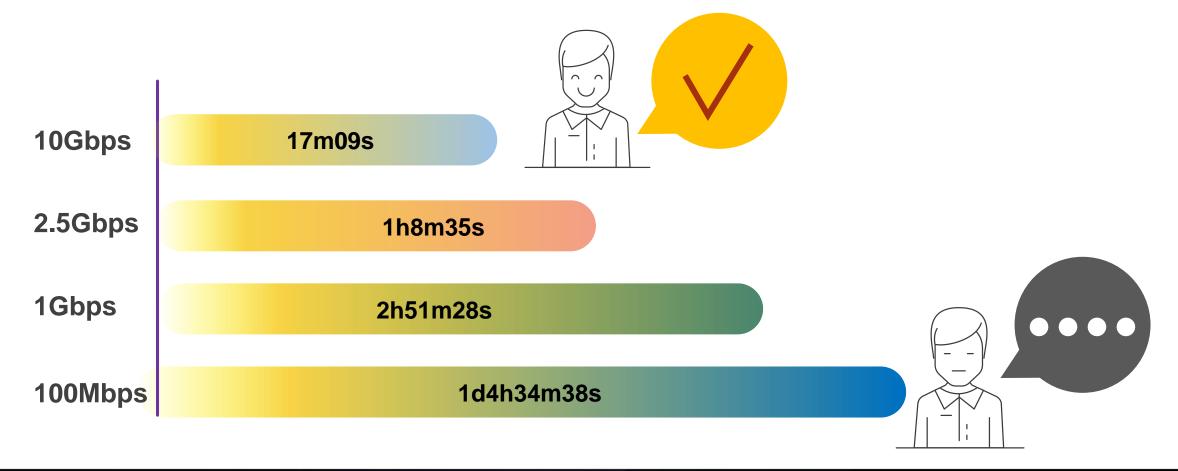
- WiFi: WiFi5→WiFi6→WiFi6E→WiFi7
  - As WiFi technology evolving, wired speed needs to be upgraded too. There are some WiFi6/6E devices equipped with 2.5GbE port even 10GbE port.



# How long do you want to wait?

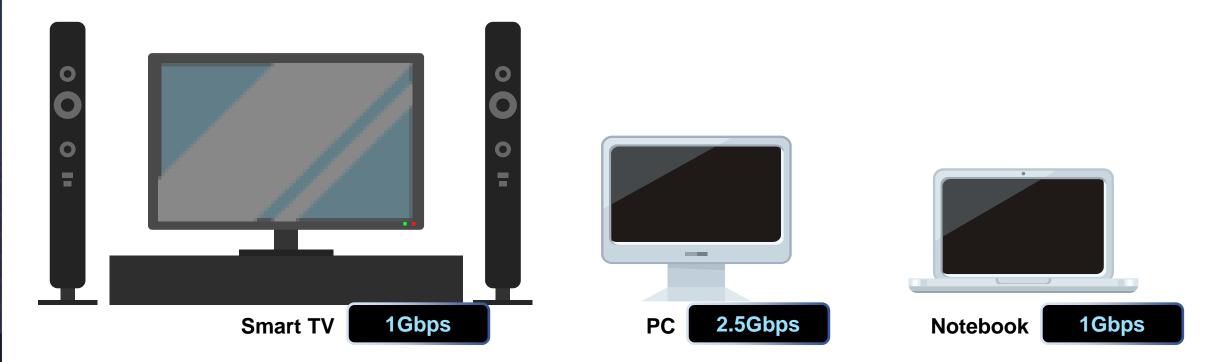
#### The estimated time to backup 1TB file

Condition: Effective Data Rate 95%, Payload Data Rate (w/ Overhead) 90%



### Do you really need all 10GbE switches?

10GbE is fast, but there are still some non-10GbE clients...



### 1GbE is enough now, how about in the future?

- 2.5GbE is taking off and becoming increasingly available in new computers and networked devices! •
- Upgrade to a 2.5GbE switch now to futureproof your network for these devices.



**TP-Link EAP670** 



Netgear AXE7800



**TP-Link Archer AX6000** 



**TP-Link Archer GX90** 



Gigabyte Z490 AORUS MASTER



Apple MacBook



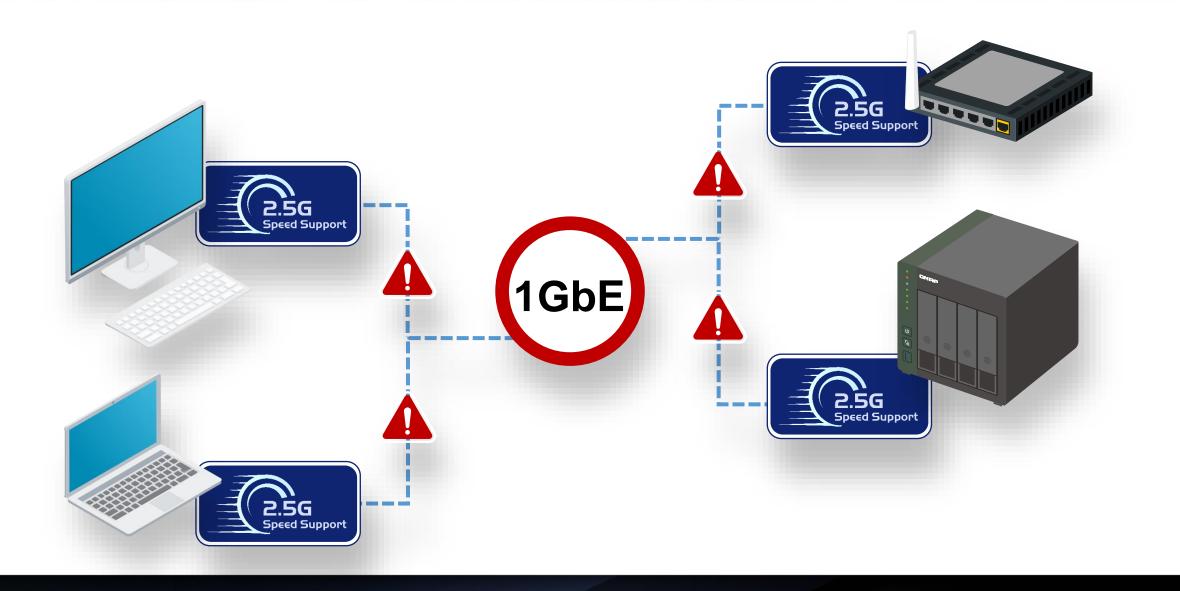
Asrock Z490 Taichi



**QNAP TS-231P3** 

### Don't let the switch become a network bottleneck

QNAF

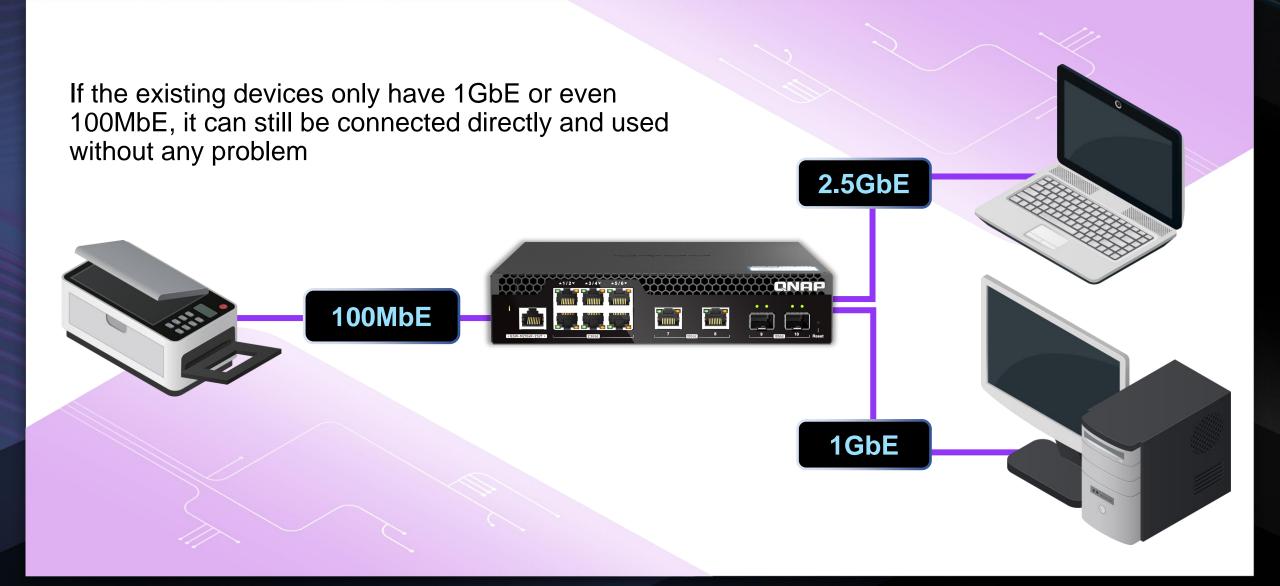


## 2.5GbE can be used with original Cat5e cables

Don't need to re-deploy the cables

	CAT 5e	CAT 6	CAT 6A
100M	√	$\checkmark$	$\checkmark$
1G	√	$\checkmark$	√
2.5G	$\checkmark$	$\checkmark$	$\checkmark$
5G	$\checkmark$	$\checkmark$	$\checkmark$
10G	X	<b>√</b> (55m)	$\checkmark$

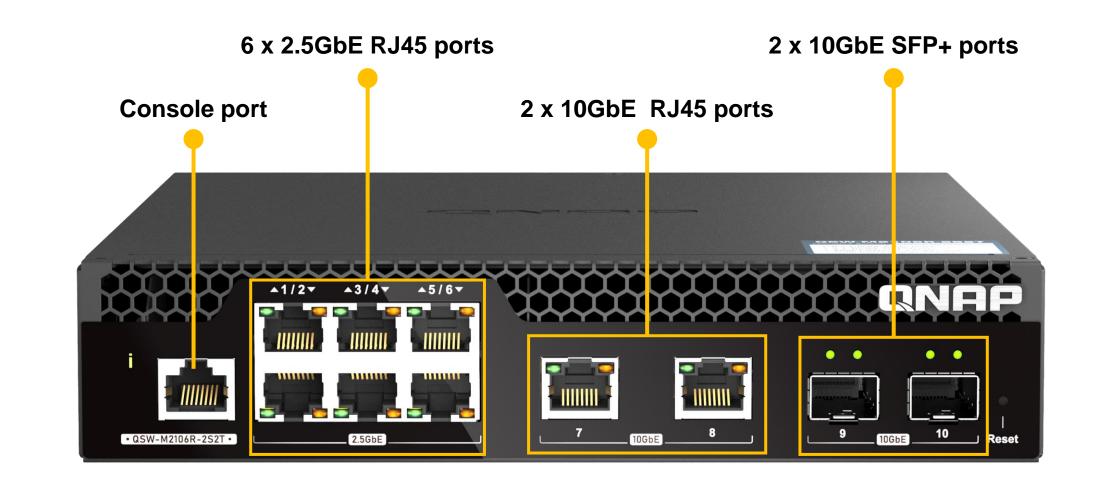
### **Connect your current devices directly**



### QSW-M2106R-2S2T Spec

	QSW-M2106R-2S2T
Management	Layer 2 Web Managed switch
Number of Port	10
2.5 GbE RJ45 (Support 2.5GbE/1GbE/100M)	6
10 GbE RJ45 (Support 10GbE/5GbE/2.5GbE/1GbE/100M)	2
10 GbE SFP+ (Support 10GbE/1GbE)	2
Switch bandwidth	110Gbps
Packet buffer size	12Mbit
Jumbo Frame	9Kbytes
MAC table	16K
Fan design	With fan
Form factor	Half-rackmount

### **QSW-M2106R-2S2T Interface**



### Half rackmount design



Install Single QSW-M2106R-2S2T in 1U space of rack

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#### Install QSW-M2106R-2S2T and QSW-M2108R-2C in 1U space of rack



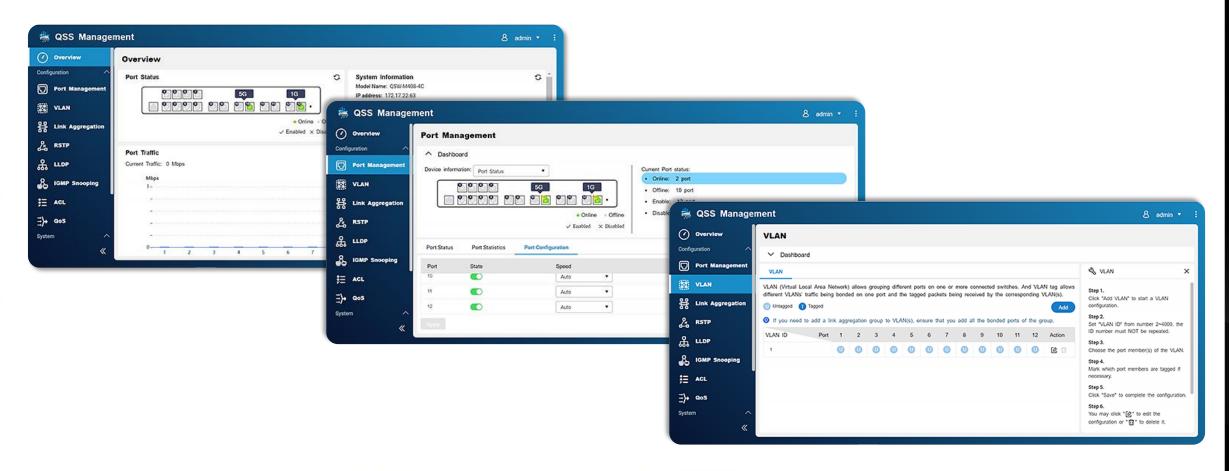
Note1: QSW-M2106R-2S2T only Note2: Requires separate 2-in-1U rackmount kit. Please visit https://shop.qnap.com.

### QSW-M2106R-2S2T Software highlights

### Easy to use GUI design

GINRE

- Rich functions and easy to use
- Straightforward web design lets user realize the setup logic quickly



### Split office network into different area

- Virtual network (VLAN) can split office network
- Easy to manage, can set up routing to connect different networks
- Separate employee and guest network

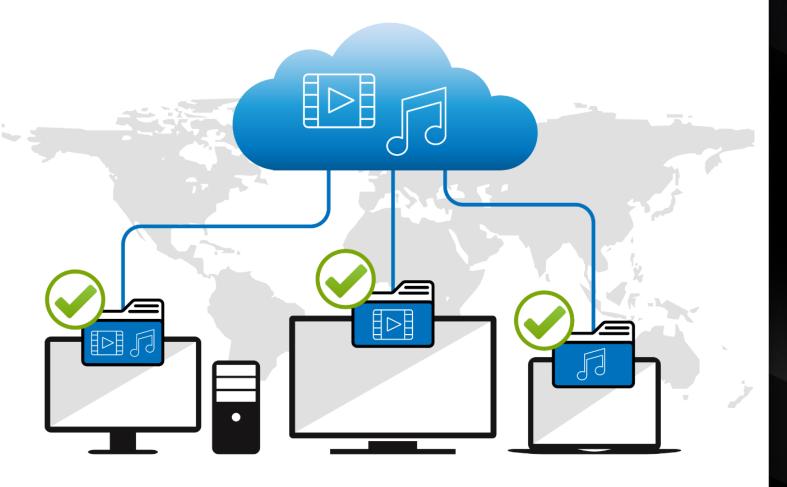
### Raise network speed with multiple network cable

- Link Aggregation (LACP) can aggregate multiple network cable into a single logical network
- Quick and direct to have a network more than 10GbE



### Deliver streaming to dedicate device specifically

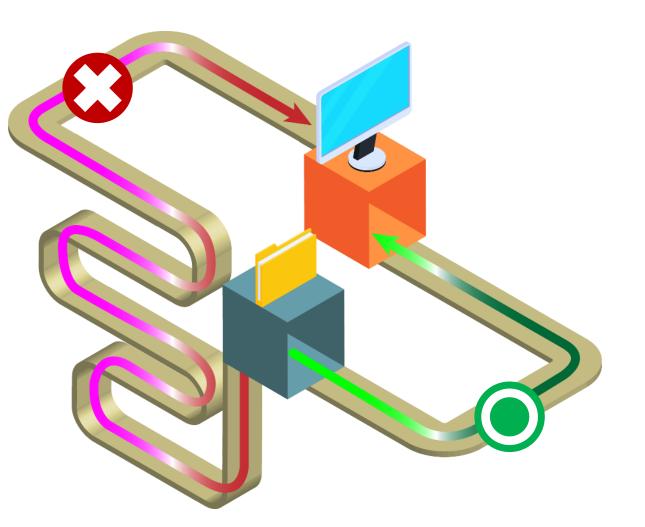
- IGMP snooping can record streaming request for each end point device
- Avoid packet lost or wrong stream broadcast



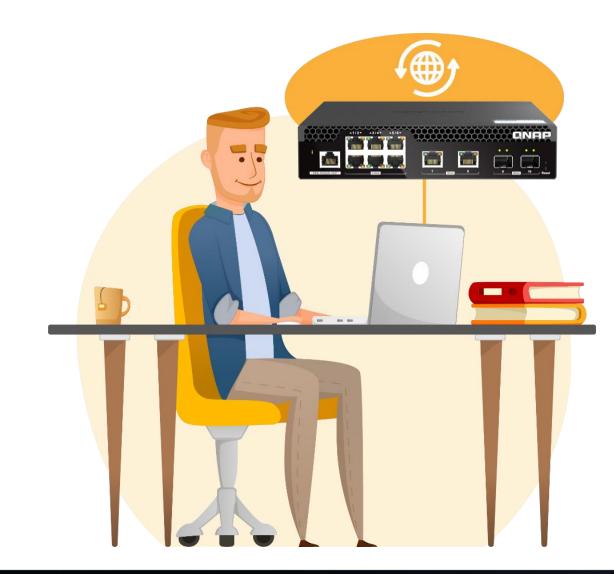
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### Always looking for best routing

- Rapid Spanning Tree Protocol (RSTP) live check best networking route
- Always using most effective route for data transfer



### **Firmware version live check**



- One-click update
- Firmware version auto detect

Manual update

### QSW-M2106 have more

- Ethernet flow control (IEEE 802.3x) managing packet transfer, avoid packet lost
- Link Layer Discovery Protocol (LLDP), easy to know which devices are conneted
- Energy-Efficient Ethernet (IEEE 802.3az) and fan speed control, managing power consumption







### QNAP provide 10GbE/2.5GbE total solution to unleash your network

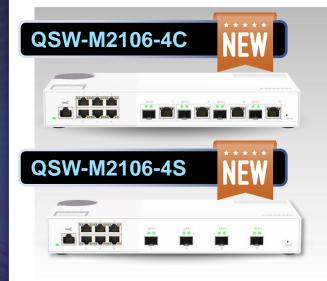
### **QNAP 2.5GbE unmanaged switches**

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### **QNAP 2.5GbE managed switches**



#### • 6x 2.5GbE RJ45

- 4x 10GbE SFP+/RJ45 combo
- Layer 2 Management
- Desktop design

• 6x 2.5GbE RJ45

- 4x 10GbE SFP+
- Layer 2 Management
- Desktop design



#### • 6x 2.5GbE RJ45

- 2x 10GbE RJ45
- 2x 10GbE SFP+
- Layer 2 Management
- Rack mount and 2 for 1 design
- 6x 2.5GbE RJ45 with 802.3bt (90W)

- 2x 10GbE RJ45 with 802.3bt (90W)
- 2x 10GbE SFP+
- Power budget: 310W
- Layer 2 Management
- Rack mount and 2 for 1 design

#### QSW-M2108-2C



#### QSW-M2108-2S



#### • 8x 2.5GbE RJ45

- 2x 10GbE SFP+/RJ45 combo
- Layer 2 Management
- Desktop design

#### 8x 2.5GbE RJ45

- 2x 10GbE SFP+
- Layer 2 Management
- Desktop design

#### QSW-M2116P-2T2S



#### QSW-M2108R-2C



- 16x 2.5GbE RJ45 with 802.3at(30W)
- 2x 10GbE RJ45 with 802.3 bt(90W)
- 2x 10GbE SFP+
- Layer 2 Management
- Power budget: 280W
  - Rackmount design
- 8x 2.5GbE RJ45
- 2x 10GbE SFP+/RJ45 combo
- Layer 2 Management
- Rack mount and 2 for 1 design

### If more budget and all 10GbE needed

#### **Managed switches**

#### QSW-IM1200-8C

#### QSW-M804-4C



3 x powers with redundant design

4 x10GbE SFP+

- 8 x10GbE SFP+/RJ45 combo
- Layer 2 management
- Rackmount
- Fan less
- 4x 10GbE SFP+
- 4x 10GbE SFP+/RJ45 combo
- Layer 2 Management
- Rack mount design

#### QSW-M1204-4C



#### QSW-M1208-8C

- 8x 10GbE SFP+
- 4x 10GbE SFP+/RJ45 combo
- Layer 2 Management
- Rack mount design
- 4x 10GbE SFP+

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- 8x 10GbE SFP+/RJ45 combo
- Layer 2 Management
- Rack mount design

#### **Unmanaged switches**

#### QSW-1208-8C



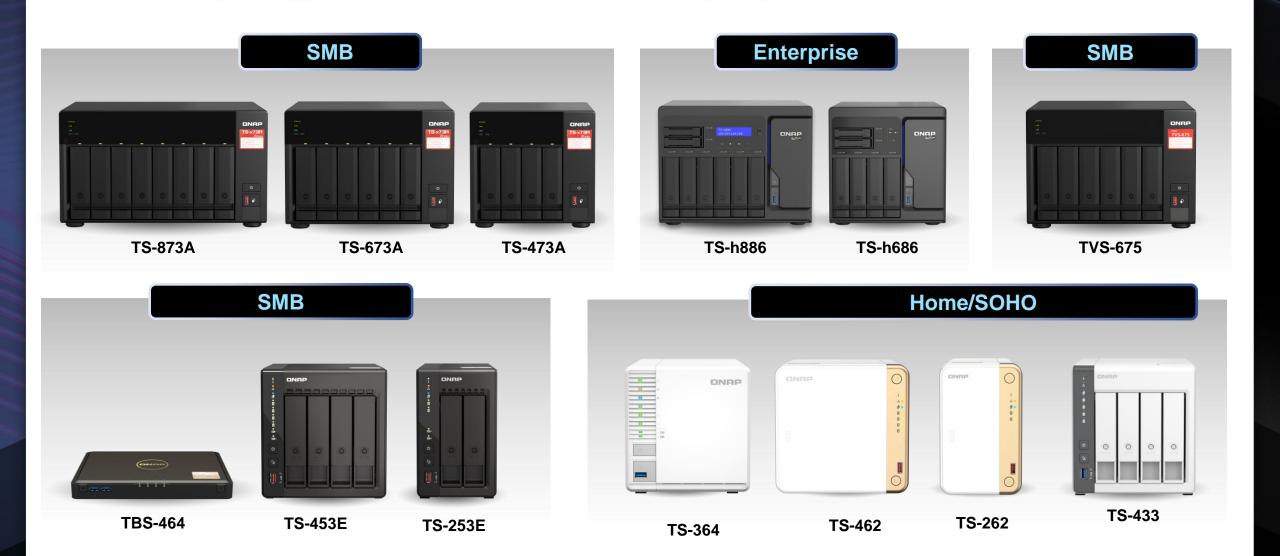
4x 10GbE SFP+

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- 8x 10GbE SFP+/RJ45 combo
  - Rack mount design

# Tower NAS with embedded 2.5GbE

QNAP



# Tower NAS with embedded 10GbE

#### With 10GbE BASE-T

#### With 10GbE SFP+



TVS-h1688X / TVS-h1288X



TVS-872XT / TVS-672XT / TVS-472XT



TS-832PX



GINRE

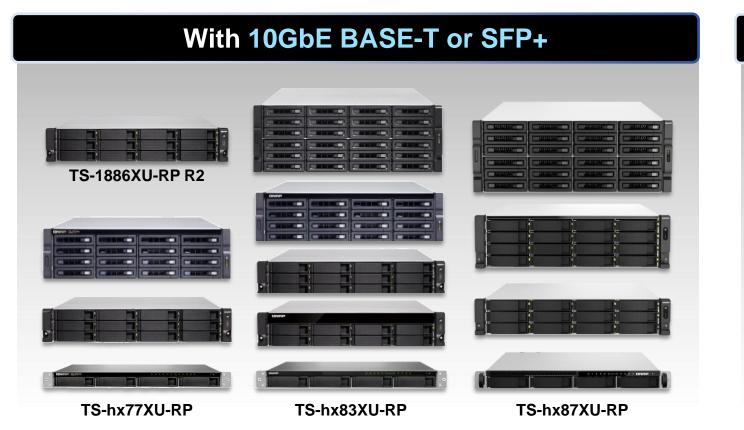
TS-431X3

10GbE + 2.5GbE





### Rackmount network NAS with embedded 2.5/5/10GbE



# With 2.5GbE BASE-T TS-435XeU TS-873AeU/873AeU-RP/1273AU-RP/1673AU-RP TS-X64U/X64eU series

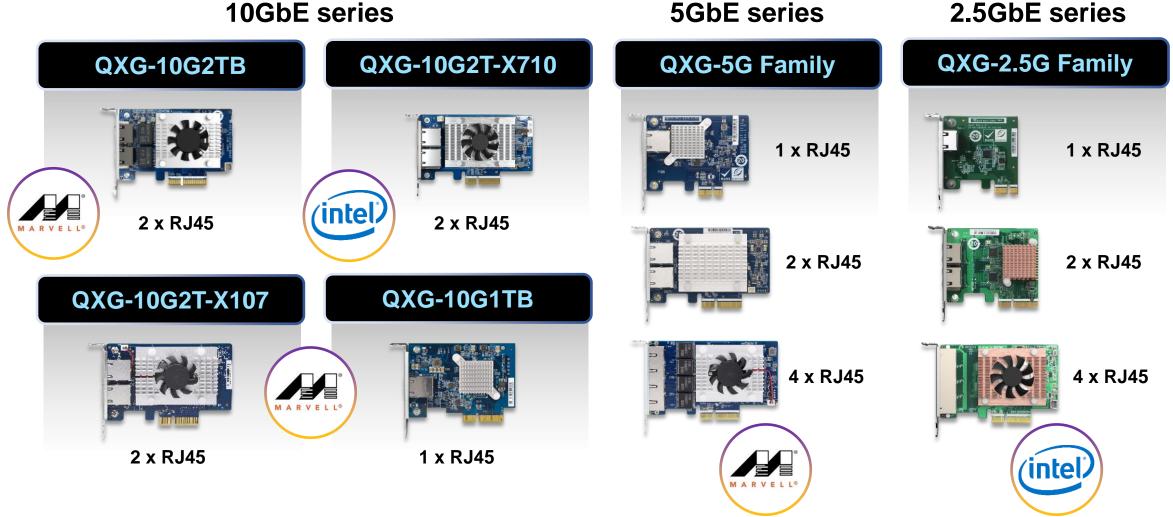
TS-x32PXU

+ 2 x 10GbE SFP+

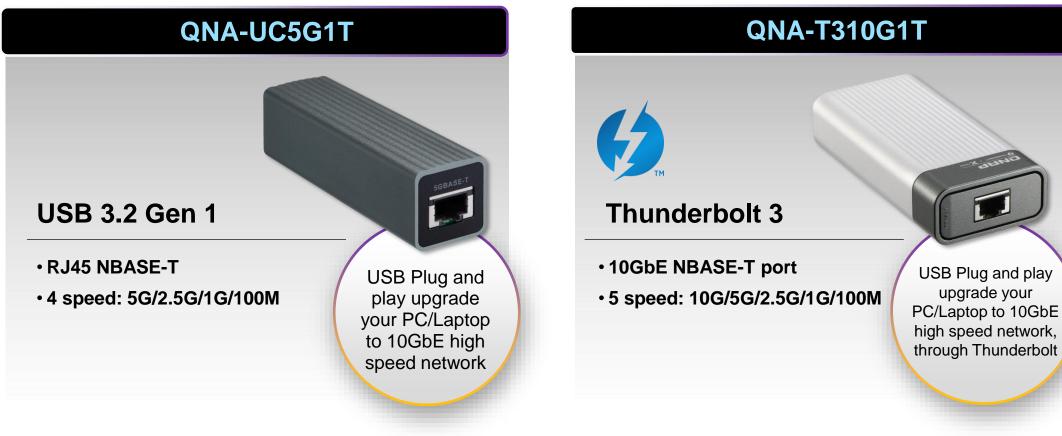
### **Network extention : Rich PCIe network extension card**

RINFIP

**10GbE series** 



### Network extention : hand carry adaptor



https://www.qnap.com/en/product/qna-tb-10gbe

#### QNAP



## **QSW-M2106R-2S2T** Is Your Best Choice!

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