



# QSW-2104 Series

2.5GbE/10GbE  
Unmanaged Switch



QSW-2104-2S



QSW-2104-2T

Plug & play, suited for Home and SOHO environment

**The demand of network speed is getting higher at home or office**



QSW-2104-2S



QSW-2104-2T

# Faster network speed is necessary for large data size files transferred

- Network efficiency will get worse without high network speed if file sizes getting larger.

## File Size Growth & The Bandwidth Conundrum

fast file transfer, high speed file transfer, transfer media files

It is no surprise to anyone within Media & Entertainment that video file sizes are getting larger – much larger. Increased image resolution and other picture improvement technologies can significantly enhance the viewer experience, but they all increase the amount of data required to deliver a minute of video.

### File sizes will continue to grow

4K video is a primary source of file size growth as more and more productions are done entirely in 4K. As with the transition from SD to HD, the availability of 4K video content to consumers naturally lags adoption in production. But that too is starting to happen, with rapid growth in specific content categories like premium live sports and long-form scripted dramas on SVOD platforms such as Netflix and Amazon. The rollout of ATSC 3.0, FCC's next generation transmission standard, has also accelerated 4K distribution of television, since almost a quarter of U.S. homes still receive broadcasts over the air.

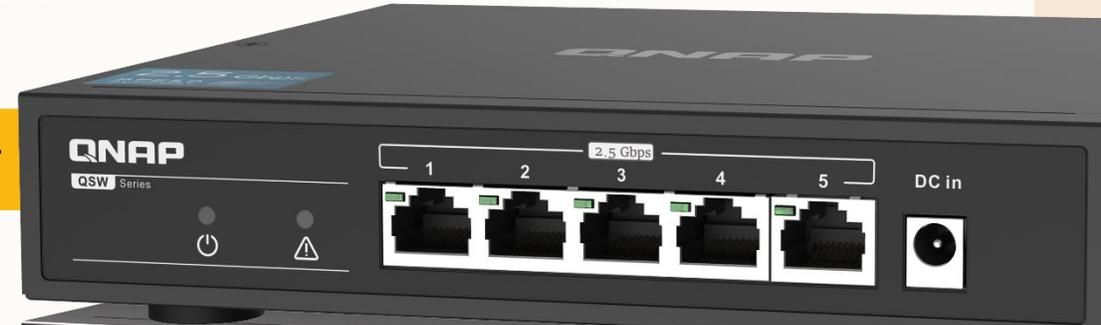
Between 4K streaming providers, the popularity of 4K videogame consoles, and the growing availability of 4K UHD Blu-Ray discs, there is ample reason for consumers to buy 4K UHD TVs. In fact, Futuresource Consulting's *2019 Worldwide TV Market Report* reported that 4K UHD TV sales hit 105m in 2018, up 32% from the previous year.

# Cat5e cable can be used directly for 2.5GbE network speed

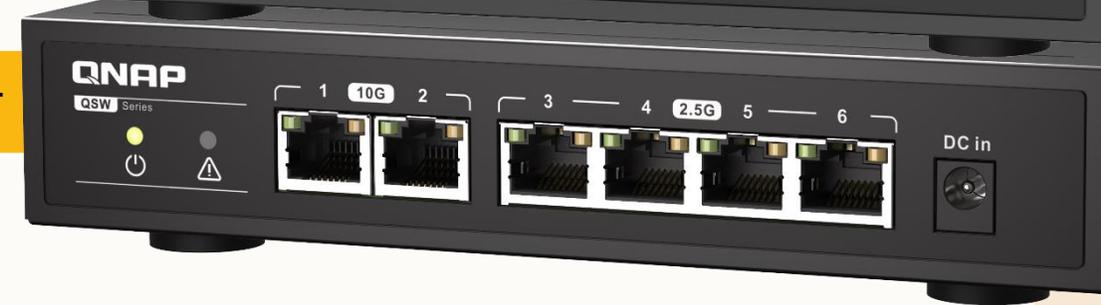
- Don't need to worry about change the cables

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

QSW-1105-5T



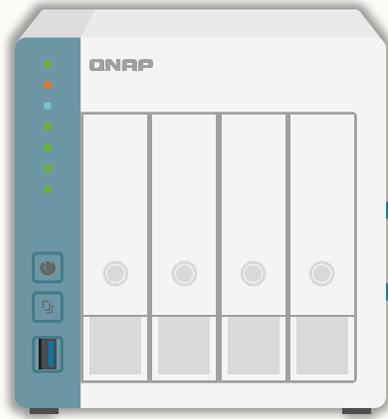
QSW-2104-2T



QSW-2104-2S



# Getting faster without getting more expensive, why don't you upgrade to 2.5GbE?

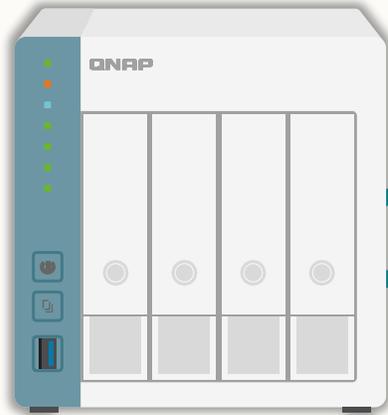


8K Full HD video

1GbE



Slow.....



8K Full HD video

2.5GbE



YA! that's what I talking about.



# The profolio of QNAP 2.5GbE switch for current



# Why we also need 10GbE on the 2.5GbE switch?



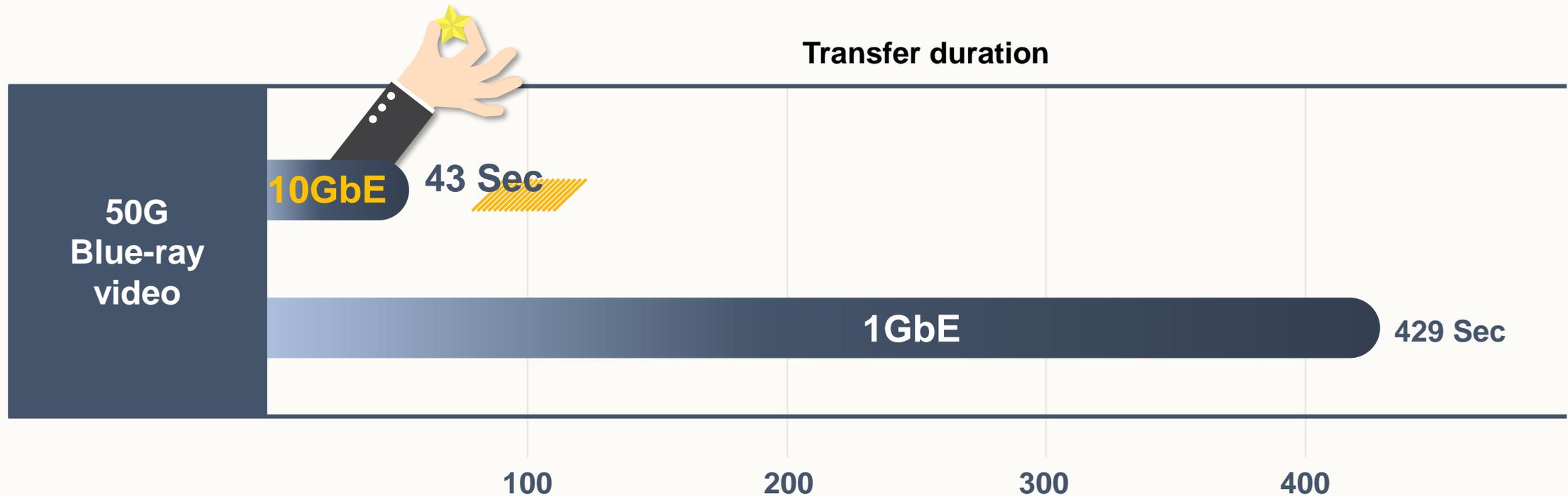
QSW-2104-2S



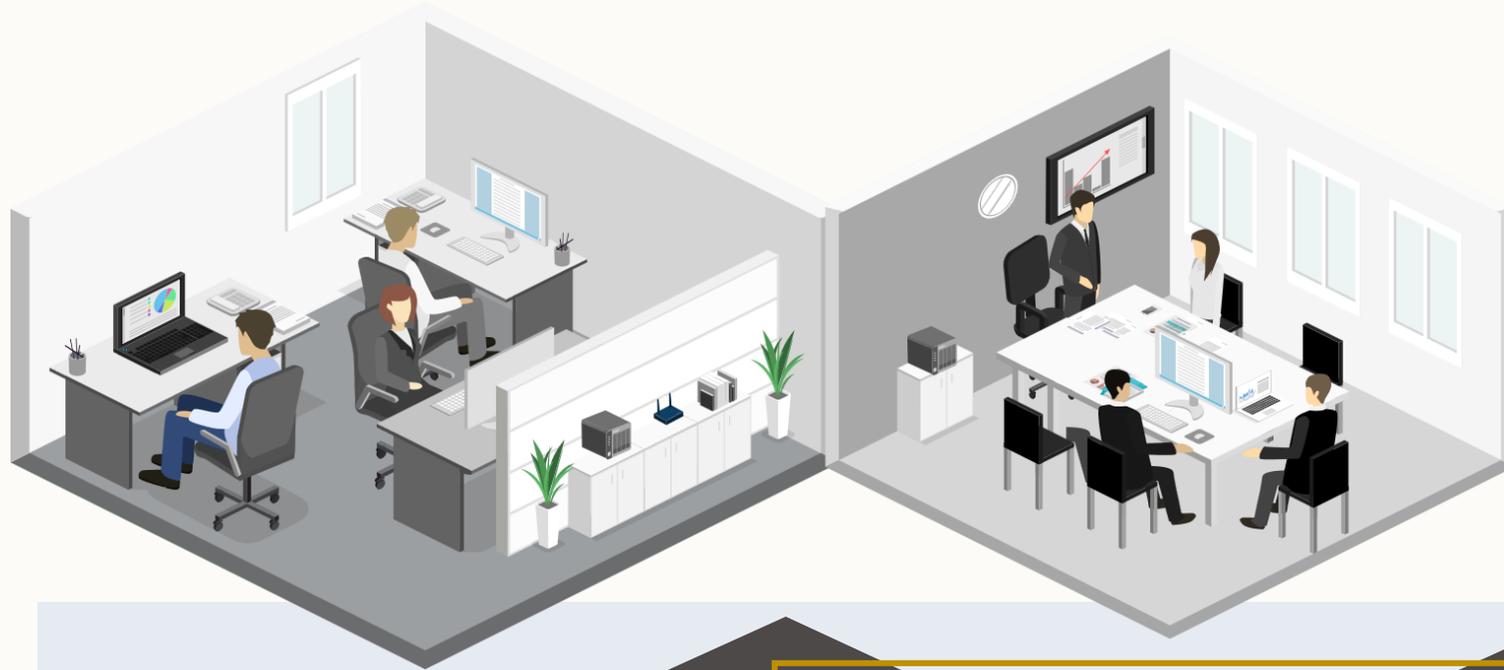
QSW-2104-2T

# Can fully upgrade our backbone network speed!

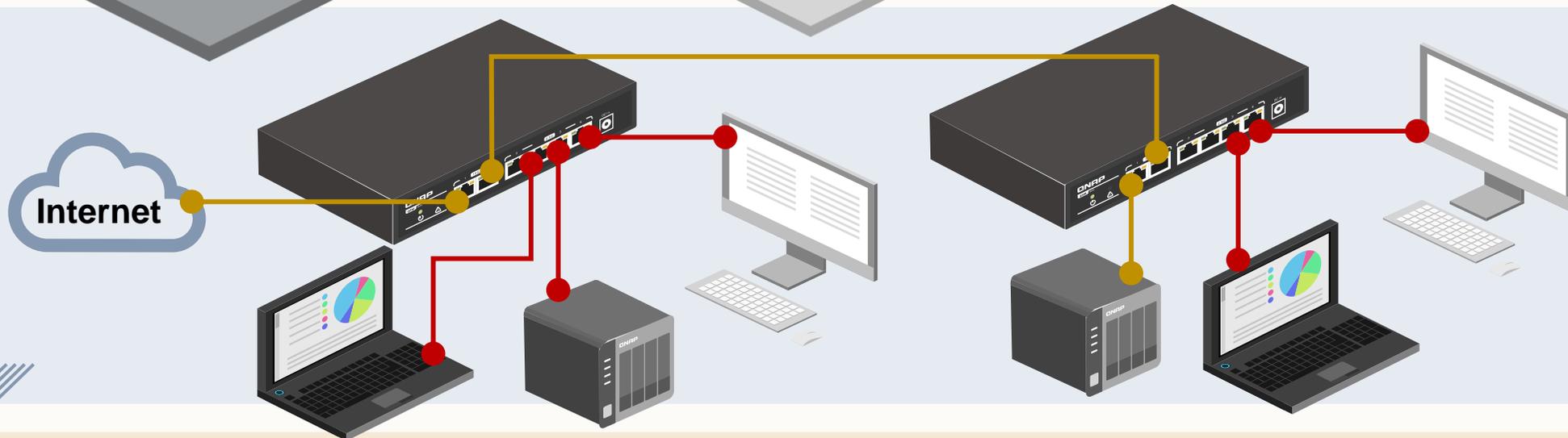
10GbE lead transmit to next level



# SOHO/SMB need to have 10GbE backbone

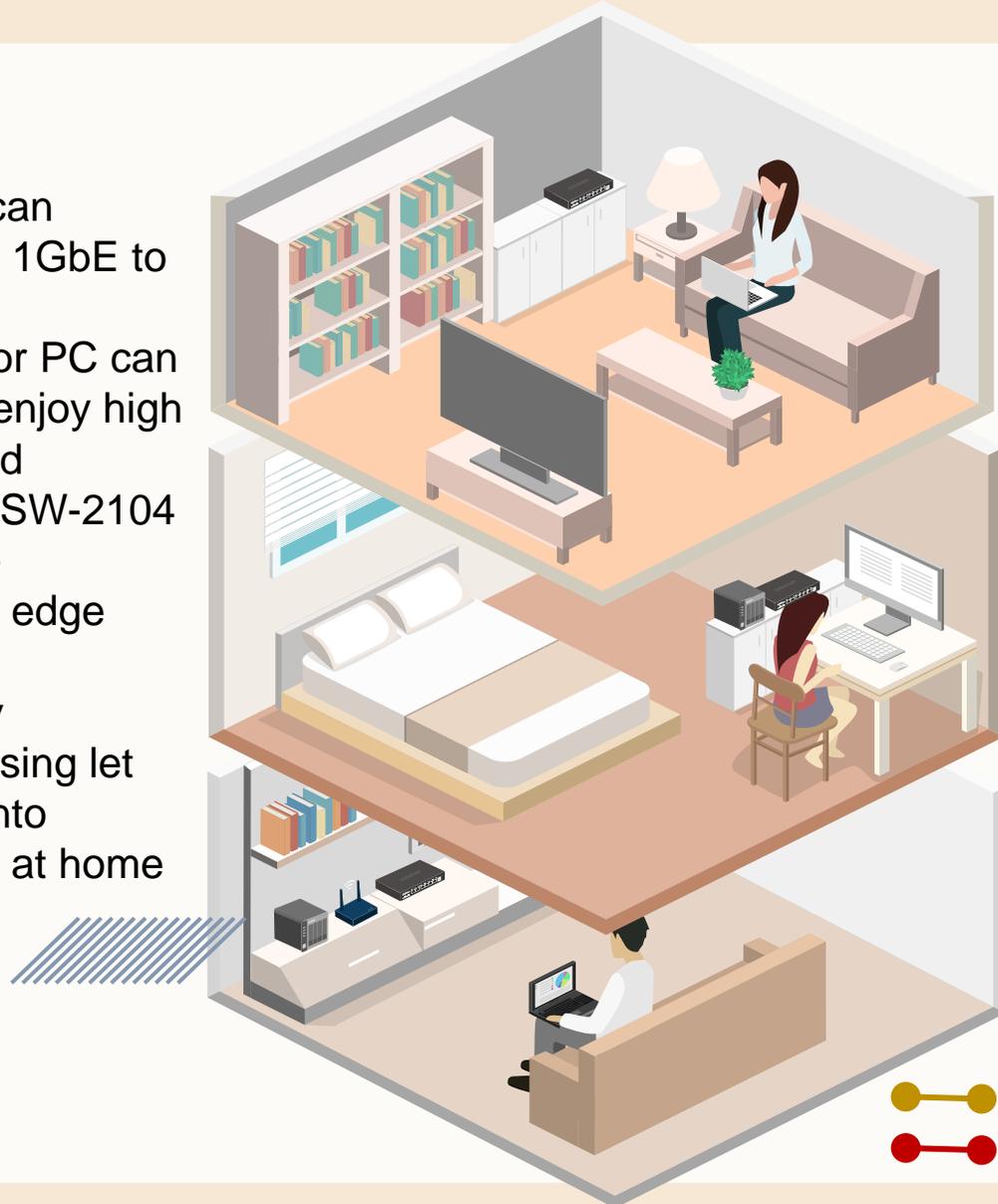


- Edge speed can upgrade from 1GbE to 2.5GbE
- Uplink goes to 10GbE
- Upgrade backbone to 10GbE
- Connected 10GbE NAS to extend 10GbE port
- Plug and play

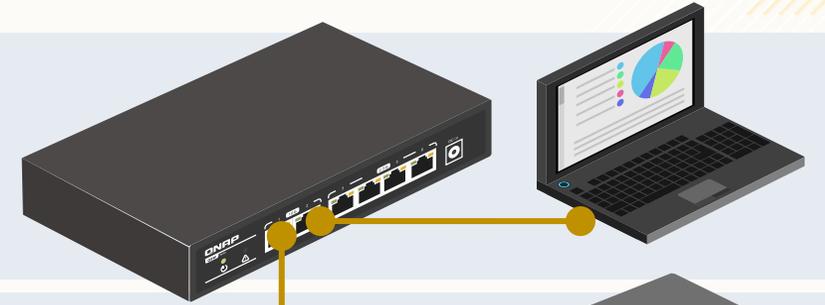


# Upgrade your home backbone to 10GbE

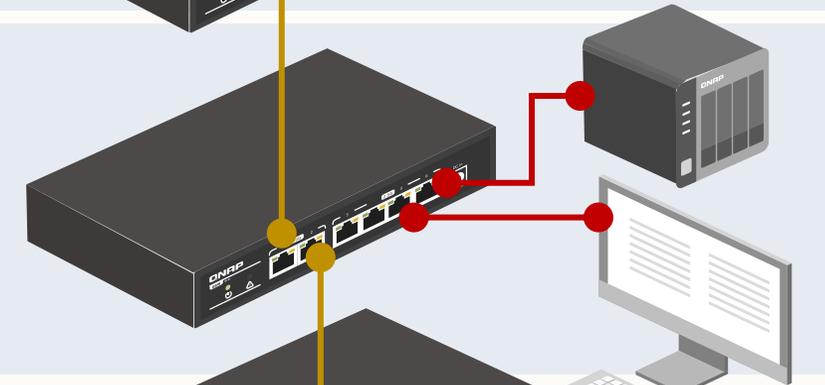
- Edge speed can upgrade from 1GbE to 2.5GbE
- 10GbE NAS or PC can connect and enjoy high network speed
- In series of QSW-2104 increased the connection to edge devices
- Plug and play
- Compact housing let you can put into distribute box at home easily



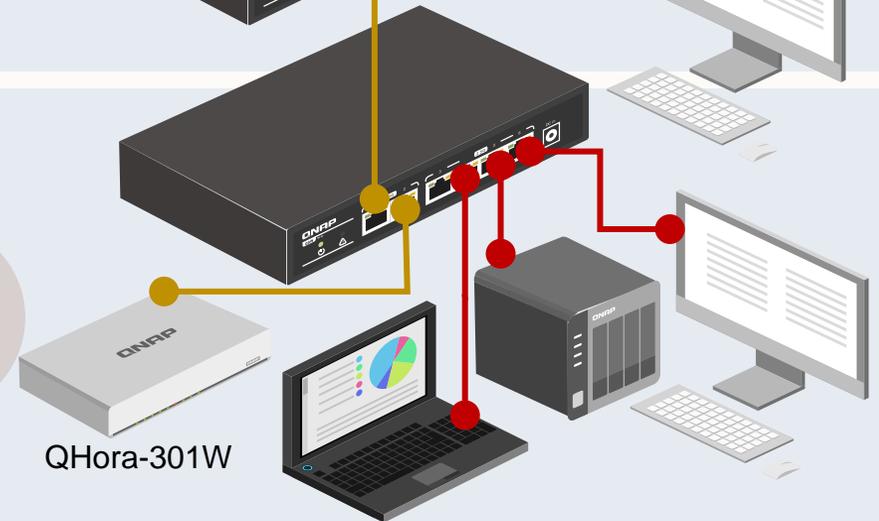
3F



2F



1F



●—● 10GbE  
●—● 2.5GbE

# How do we choose the unmanaged 2.5GbE solutions?



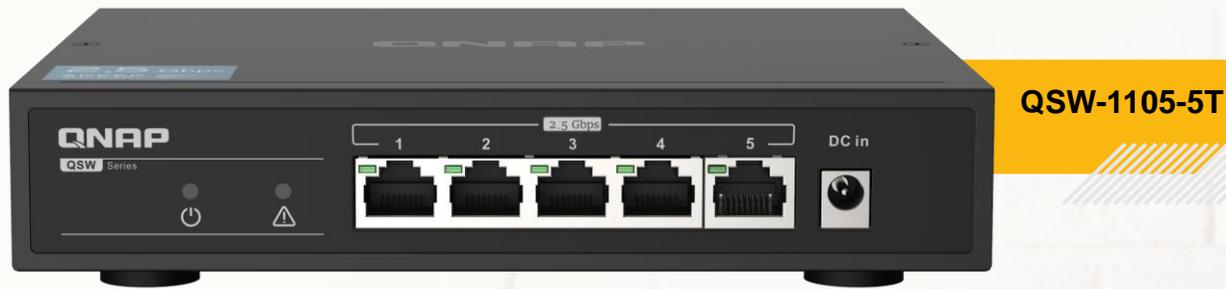
QSW-2104-2S



QSW-2104-2T

# The number of network devices is not so much and neither have 10GbE demanded

- Can use QSW-1105-5T already on the market



# With 10GbE demanded or multiple QSW usaged

- QSW-2104 series will be your best choice
  - 1GbE-->2.5GbE and 10GbE
  - Two connector options of 10GbE, RJ45 and SFP+
  - Unmanaged



QSW-2104-2S



QSW-2104-2T



# QSW-2104 series easily brings you upgrade to 2.5GbE and 10GbE at the same time

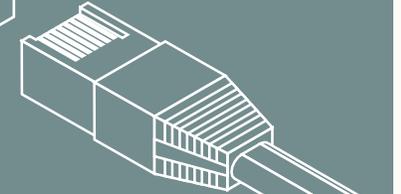


10GbE  
—  
2.5GbE

Have 2.5GbE and 10GbE at the same time



Two kind of connector options for 10GbE



Plug and play without any configurations

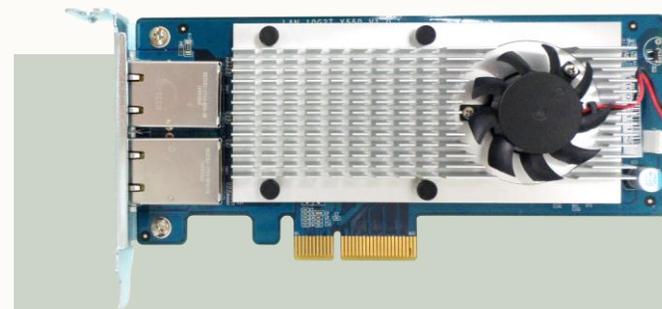
# To go with these 10GbE devices



**QNAP 10GbE NAS**



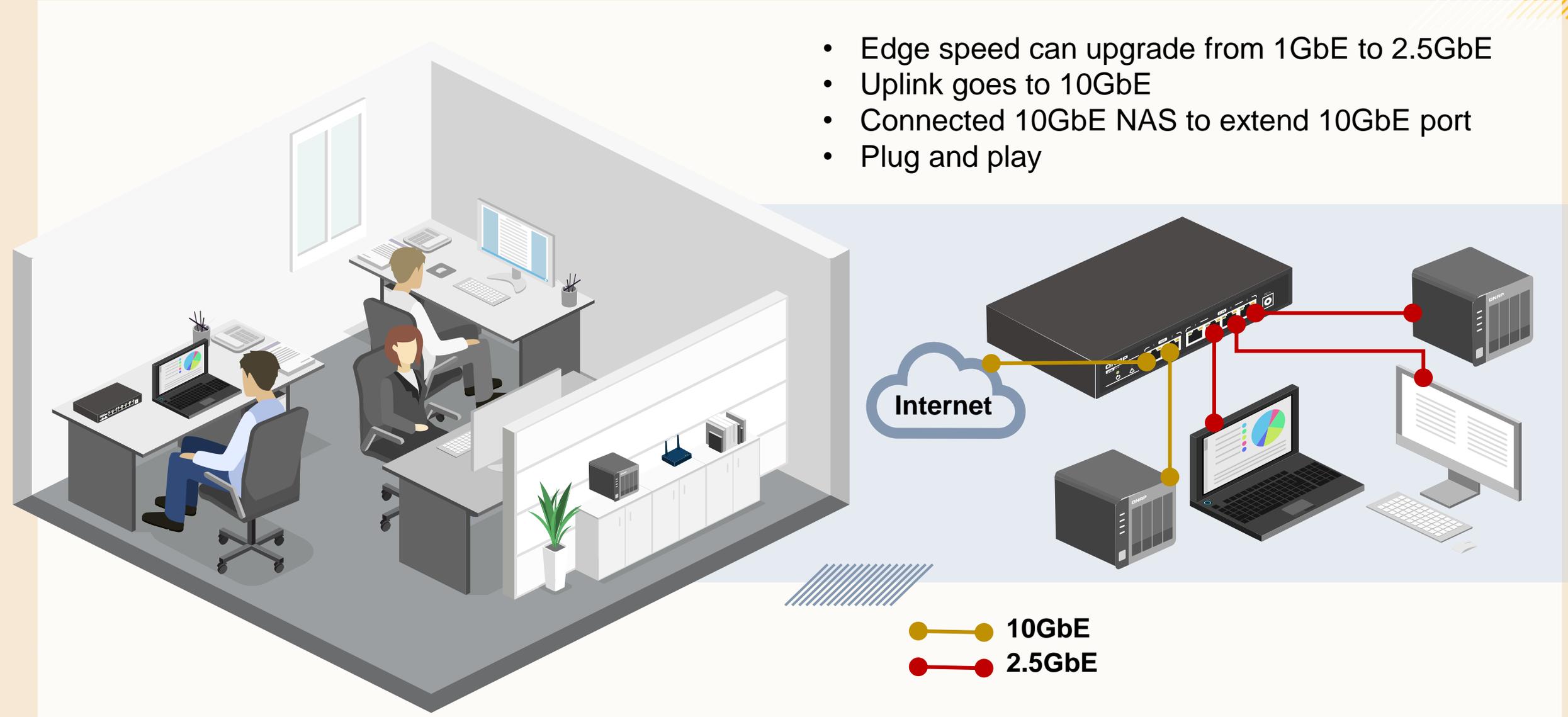
**QNAP 10GbE Router  
QHora-301W**



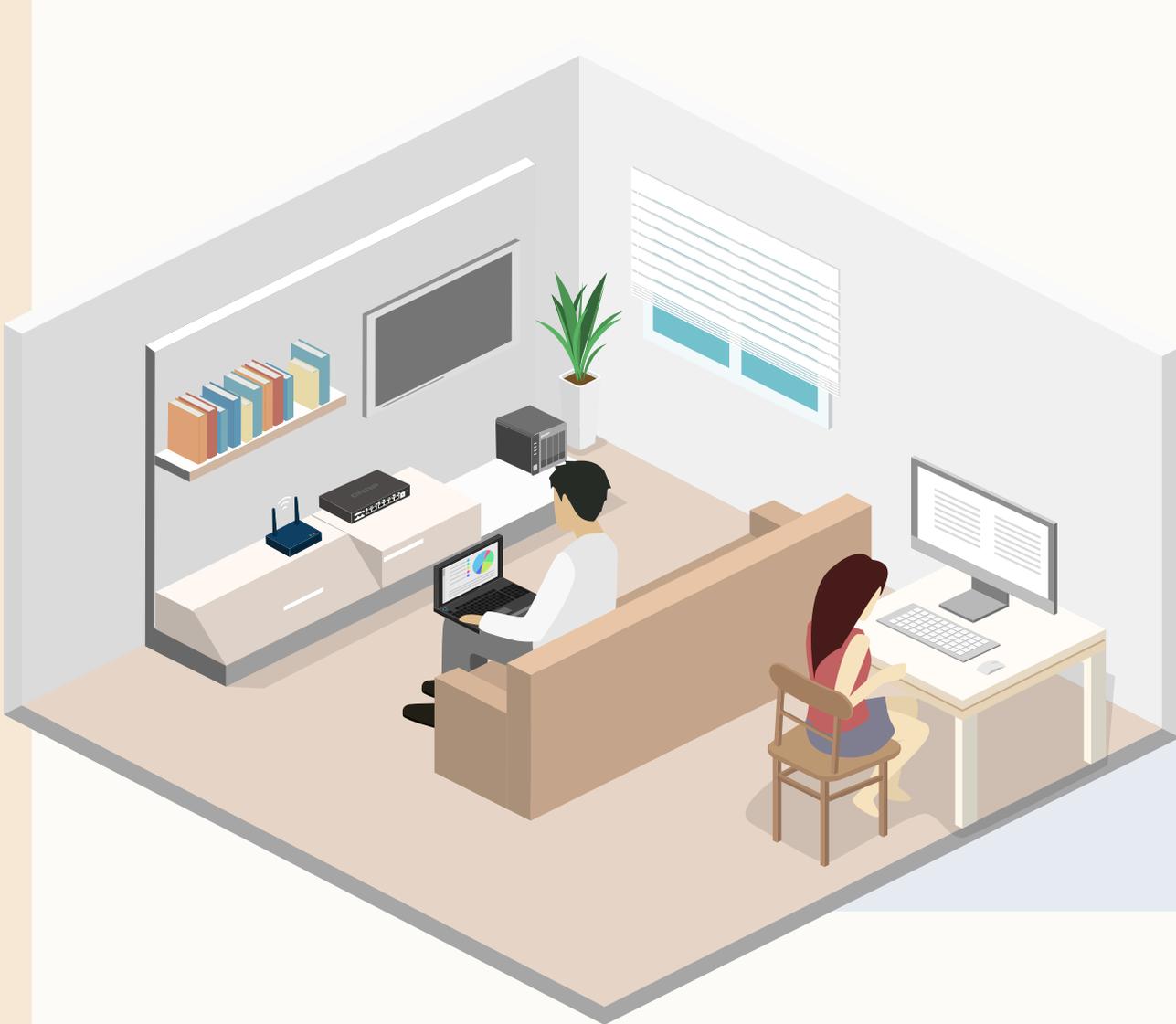
**QNAP 10GbE NIC**

# Single QSW-2104 in SOHO/SMB network

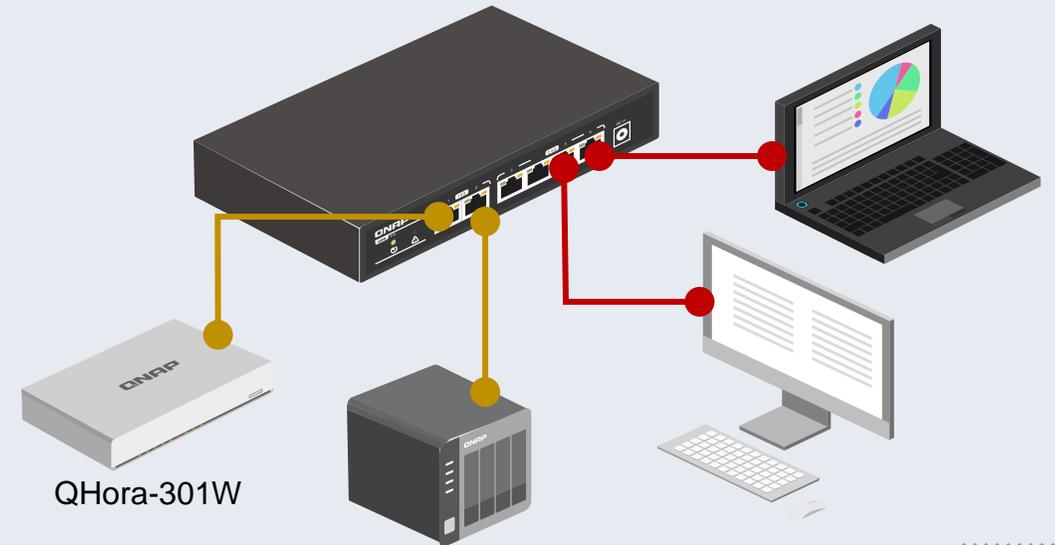
- Edge speed can upgrade from 1GbE to 2.5GbE
- Uplink goes to 10GbE
- Connected 10GbE NAS to extend 10GbE port
- Plug and play



# Single QSW-2104 in at home



- Edge speed can upgrade from 1GbE to 2.5GbE
- 10GbE NAS or PC can connect and enjoy high network speed
- Plug and play
- Compact housing let you can put into distribute box at home easily



# HW spec



QSW-2104-2S



QSW-2104-2T

# HW comparism



	QSW-2104-2S	QSW-2104-2T	QSW-1105-5T
2.5GbE RJ45	4	4	5
10GbE SFP+	2	-	-
10GbE RJ45	-	2	-
Fan	Fan less	Fan less	Fan less
Loop detection	Yes	Yes	Yes

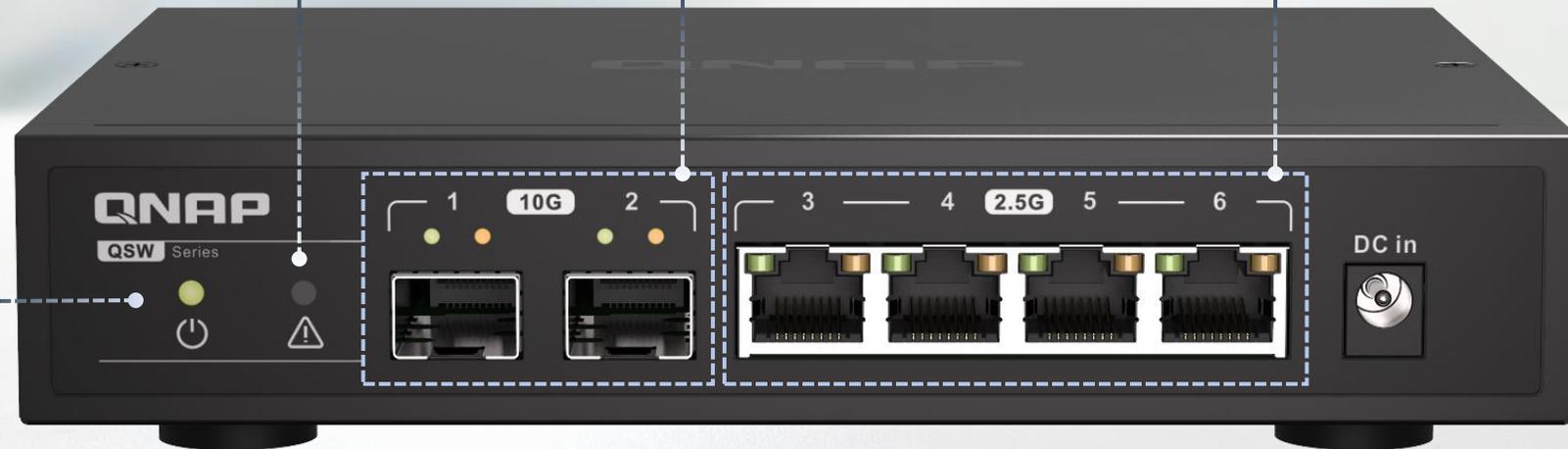
# QSW-2104-2S HW Panel

Status LED

Loop indicator

10GbE SFP+ ports

2.5GbE RJ45



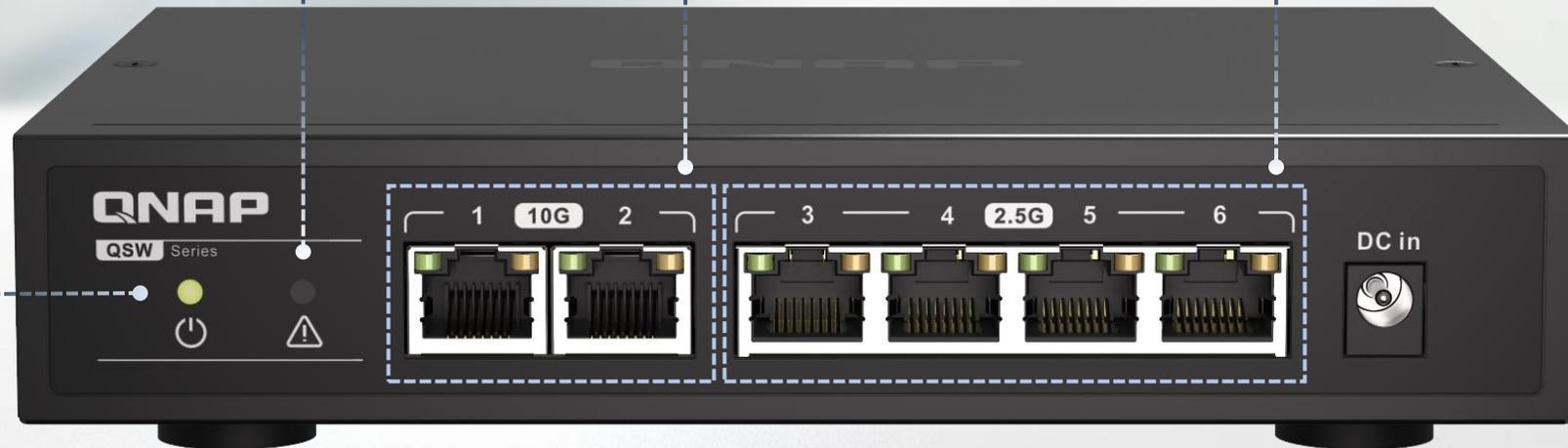
# QSW-2104-2T HW Panel

Status LED

Loop indicator

10GbE RJ45 ports

2.5GbE RJ45



# Fan less design, without noising

- Desktop with fan less presenting high quality of housing design
- Enjoy the relax at home without any noise



**QSW-2104 have more**



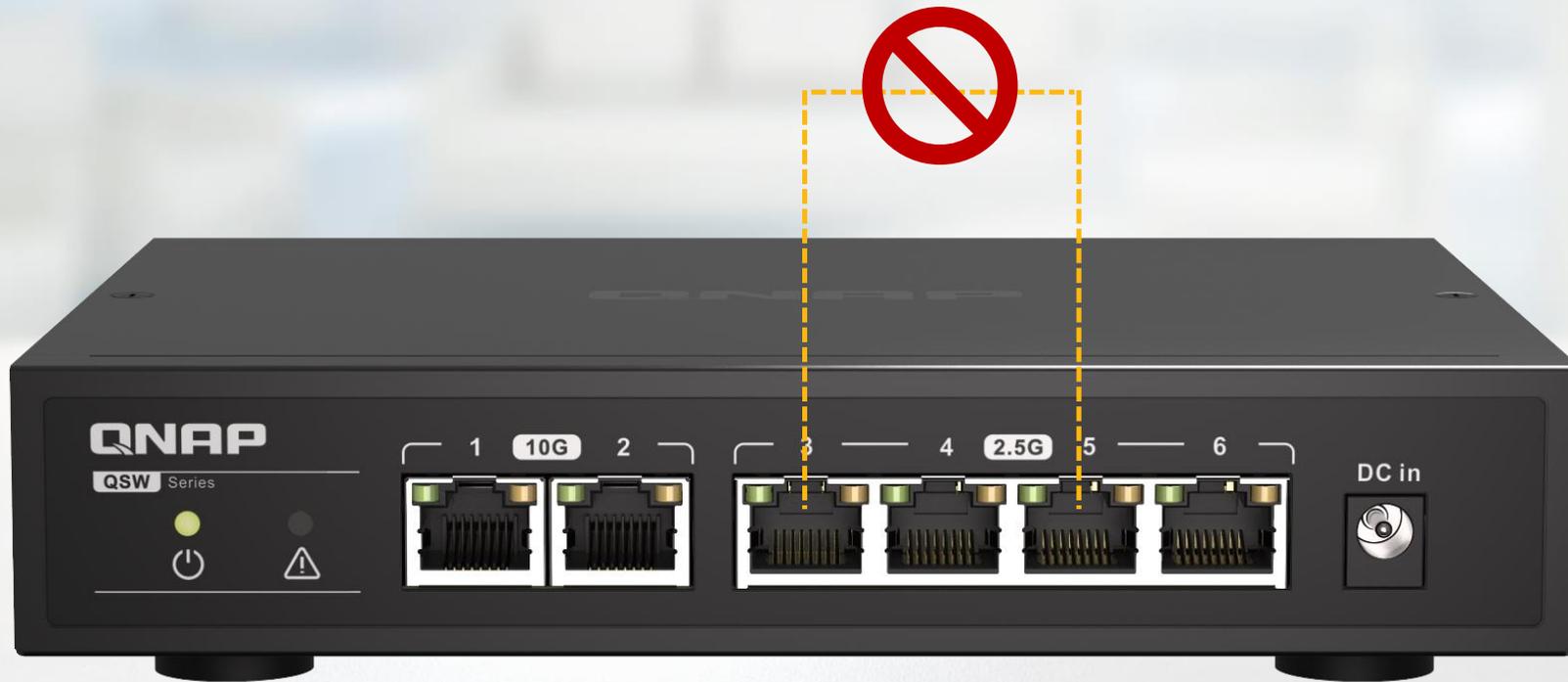
QSW-2104-2S



QSW-2104-2T

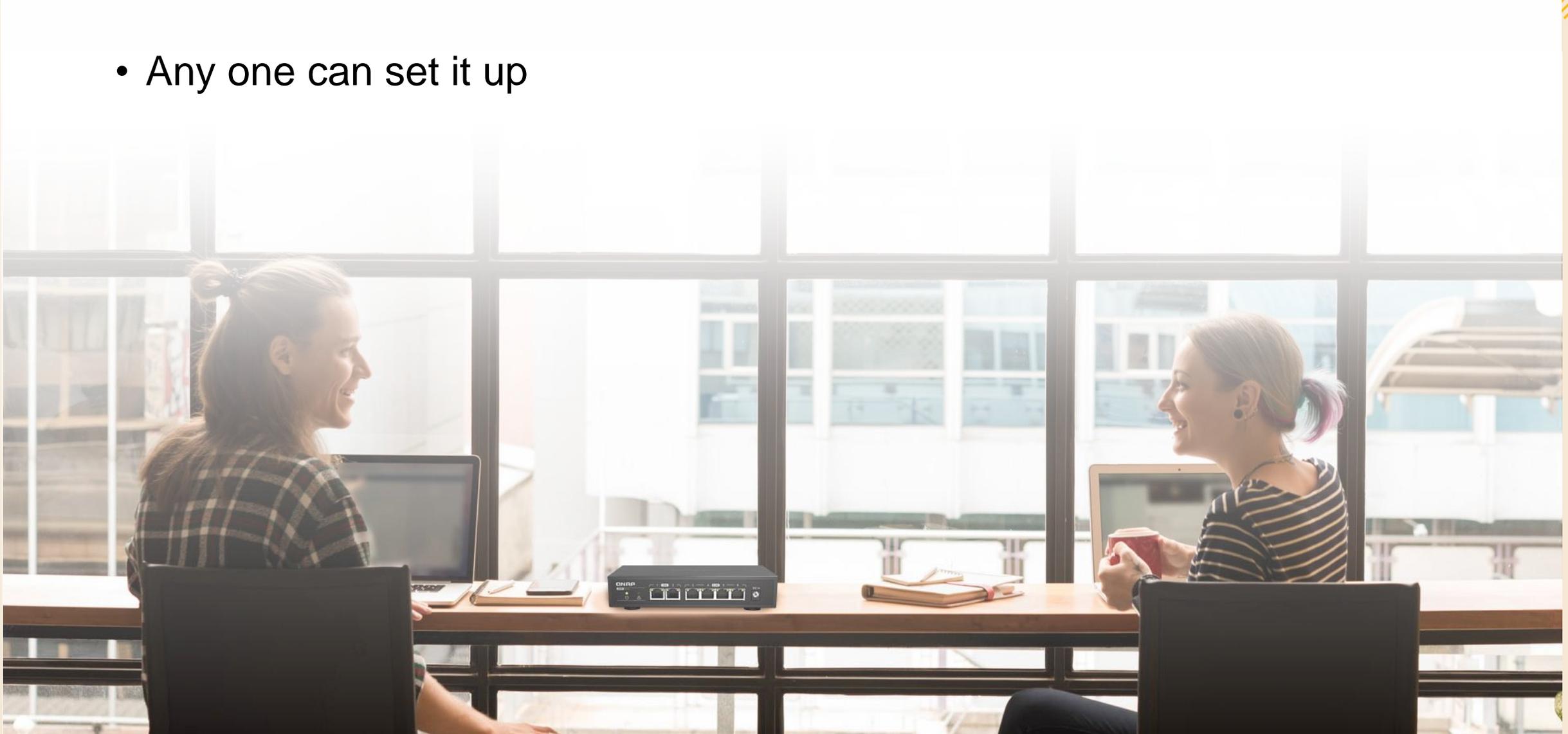
# Loop is not going happen on QSW-2104

- HW loop guard helps to do that, and it is usually supported on high level managed switch



# Plug and play without any configurations

- Any one can set it up



# Perfect with QNAP high network speed solution



QSW-2104-2S



QSW-2104-2T

# QNAP 2.5GbE teams give you perfect experience of high speed network

## Professional high efficiency network storage



Intel Celeron J4125 4 cores 2.0GHz, 2 x 2.5GbE, PCIe extend M.2 NVMe/ SATA SSD or 10GbE



TS-653D

TS-453D

TS-253D

Annapurna Labs AL-314 4 cores 1.7GHz, 1 x 10GbE SFP+, 1 x 2.5GbE



TS-431X3

## Digital home with high quality of streaming

Annapurna Labs AL-314 4 cores 1.7GHz, 1 x 2.5GbE



TS-231P3

TS-431P3

# Embedded 2.5/5/10GbE desktop NAS

With **10GbE BASE-T**



TVS-h1688X / TVS-h1288X



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



TS-832PX



TS-431X3  
**10GbE + 2.5GbE**

With **5GbE BASE-T**



TVS-872N / TVS-672N



TS-h886 / TS-h686



TS-653D / TS-453D /  
TS-253D



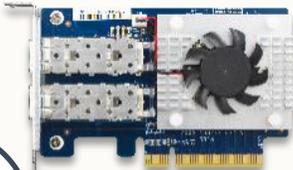
TS-431P3 / TS-231P3

With **2.5GbE BASE-T**

# Network extend : rich PCIe extension card

## 10GbE network extension card

**QXG-10G2SF-CX4**



2 x SFP+



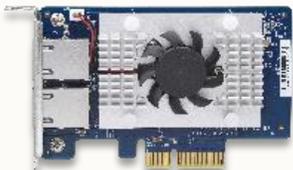
**LAN-10G2T-X550**



2 x RJ45



**QXG-10G2T-107**



2 x RJ45



**QXG-10G1T**



1 x RJ45

## 5GbE series

**QXG-5G Family**



1 x RJ45



2 x RJ45



4 x RJ45



## 2.5GbE series

**QXG-2.5G Family**



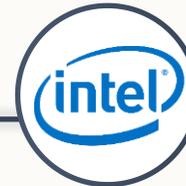
1 x RJ45



2 x RJ45



4 x RJ45



# Network extend : Portable network extension card

## QNA-UC5G1T



### USB 3.2 Gen 1

- RJ45 NBASE-T
- 4 speed: 5G/2.5G/1G/100M

Upgrade your laptop or PC to 5GbE with portable USB dongle

<https://www.qnap.com/en/product/qna-uc5g1t>

## QNA-T310G1T



### Thunderbolt 3

- 10GbE NBASE-T port
- 5 speed: 10G/5G/2.5G/1G/100M

Upgrade your laptop or PC to 10GbE with portable USB dongle by using Thunderbolt

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

**QNAP**

# QSW-2104 Series

2.5GbE/10GbE  
Unmanaged Switch



QSW-2104-2S



QSW-2104-2T