

**QNAP**

# QSW-IM1200-8C

Industrial-grade fanless  
L2 Full 10GbE Managed Switch

Ensure high reliability in rugged environments



Industrial design



Fanless



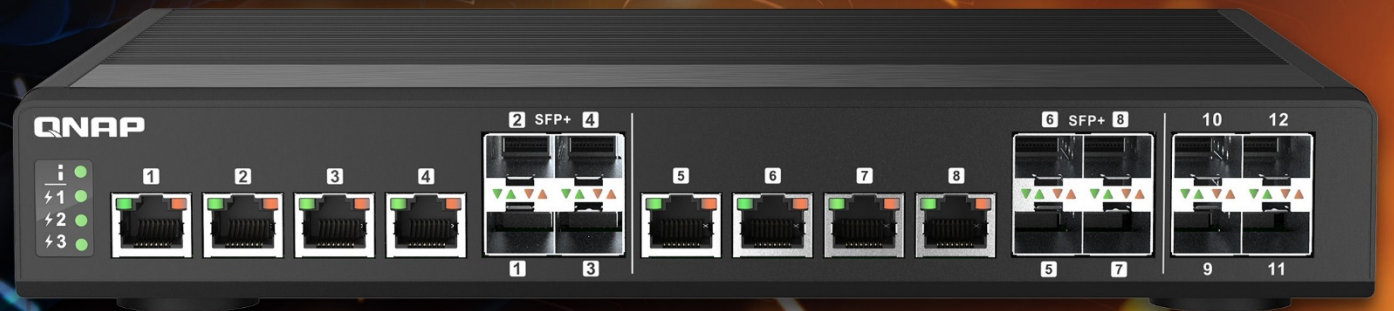
Highest operation temperature  
-30°C-65°C



12 x 10GbE ports switch



Managed switch



# Industrial switch can be used in rugged environments, not only for industrial area

	Server room of usual business office 	Rugged environments 
Air condition	Yes	None or not stable
Power	Yes and stable	Yes but not stable
Space for the switch	Well storage	Randomly space
Maintains people	Yes	Maybe not

# New design of QSW-IM1200-8C start changing the concept of industrial switch, not only the industrial area needed industrial switch

- **Fan less and full cover of heatsink on the top of device**  
Well designed of heat dissipation, and fan less can exclude thermal issue caused by fan.
- **Full 10GbE**  
10GbE SFP+/10GbE Combo let user easily to choose the connector.
- **Using QSS as usual**  
QSS can keep user easy of used, setup device quickly.
- **Multiple power input with 9~54V**  
Don't need to worry about unstable power input.



# Where can QSW-IM1200-8C be installed?

**Not well with heat  
dissipated**



**Open area for storage**

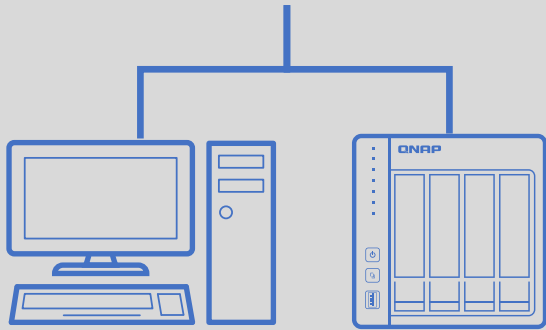


**Outdoor space**



# Surveillance for open space, 10GbE can provide high speed network from control center to each sites

## Control center



Outdoor surveillance need high speed network for video transfer.

— 10GbE copper

— 10GbE Fiber

3F

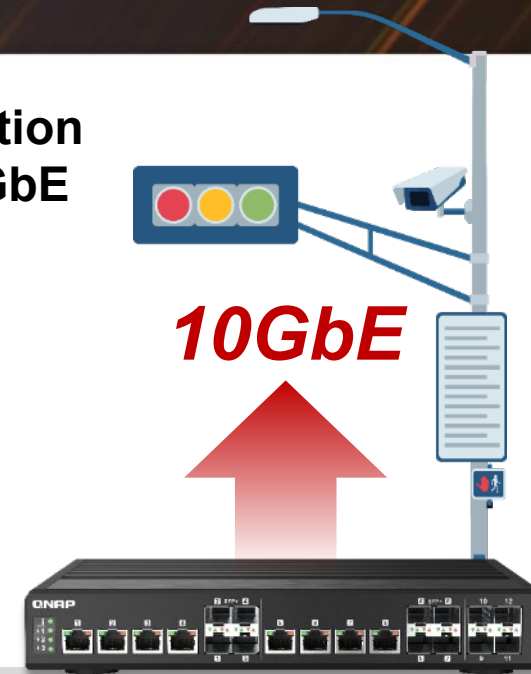
2F

1F



# Smart pole of smart city need 10GbE for high speed transfer

Smart pole for the traffic, also need high speed connection back to control center, including different systems, 10GbE can make sure all the communication doing well.



- Signal light
- Camera
- Electronic dashboard

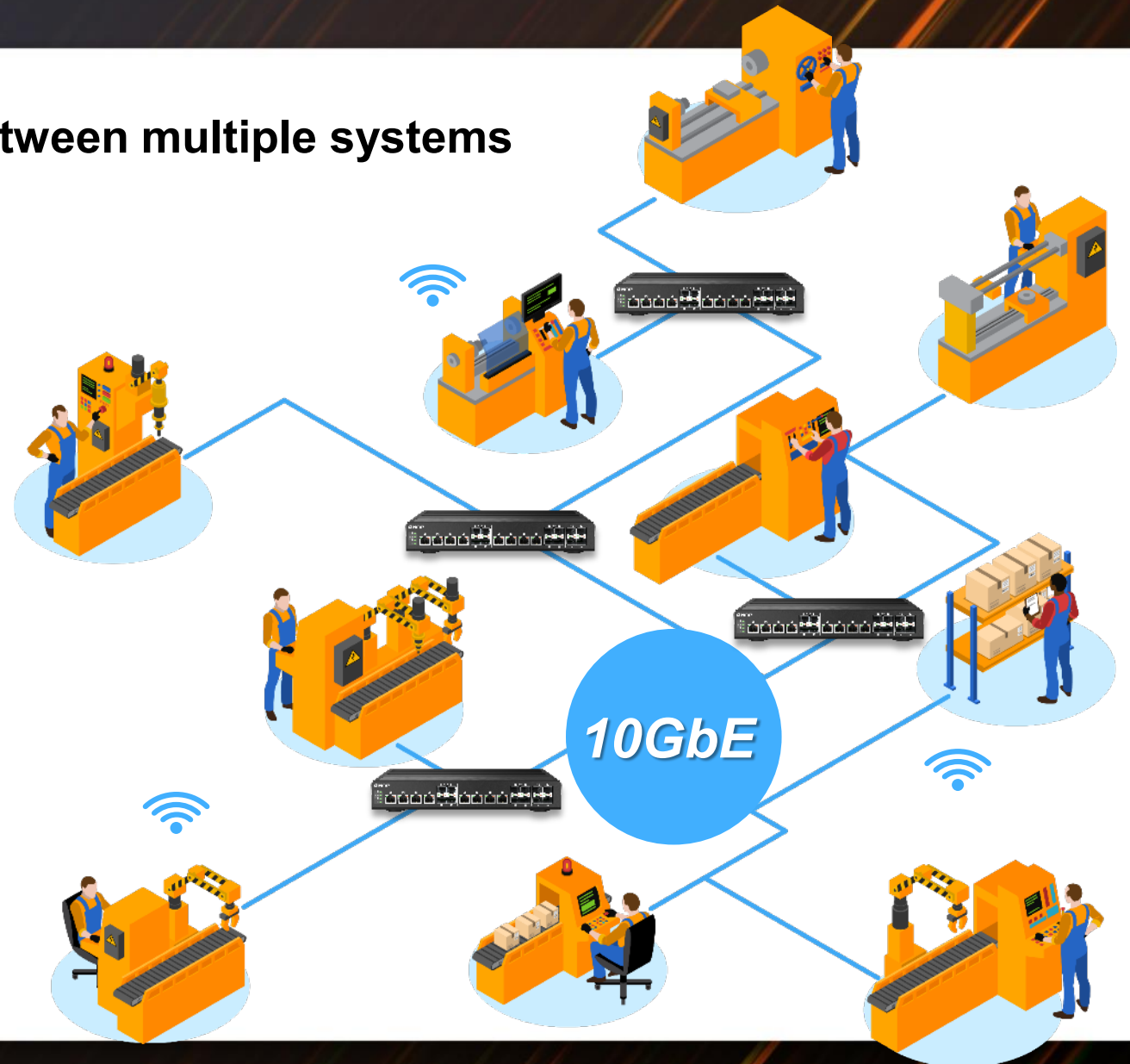
**10GbE** → Control center



# 10GbE can help smart factory become much smart

**10GbE make connection smoothly between multiple systems**

- AI robotic arm
- Automated Guided Vehicle(AGV)
- Wireless system
- Door/Access control
- Control center
- Surveillance



QSW-IM1200-8C

# QSW-IM1200-8C Hardware



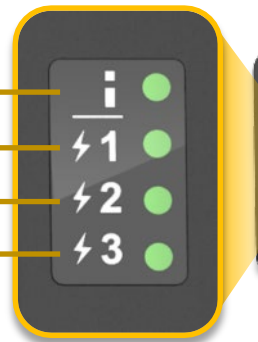


# Device panel

## Front

Status LED

Power 1, Power 2  
Power 3 status LED



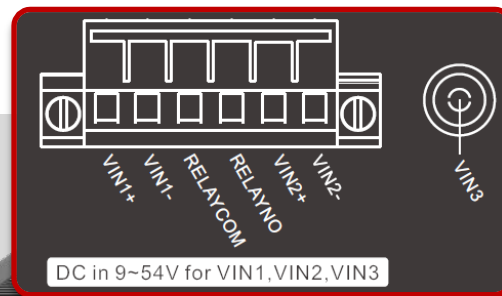
8 x 10GbE SFP+/RJ45  
combo ports

4 x 10GbE  
SFP+ ports

## Back

### New power input design

- Three DC in 9~54v
- Power circuit protection



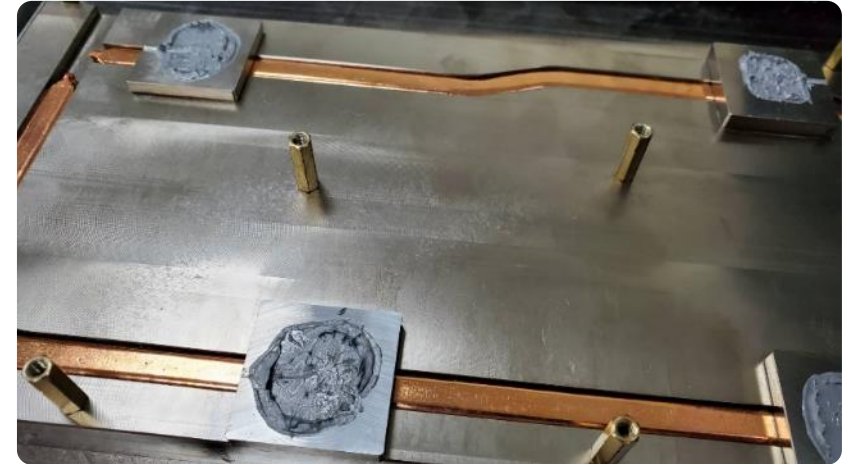
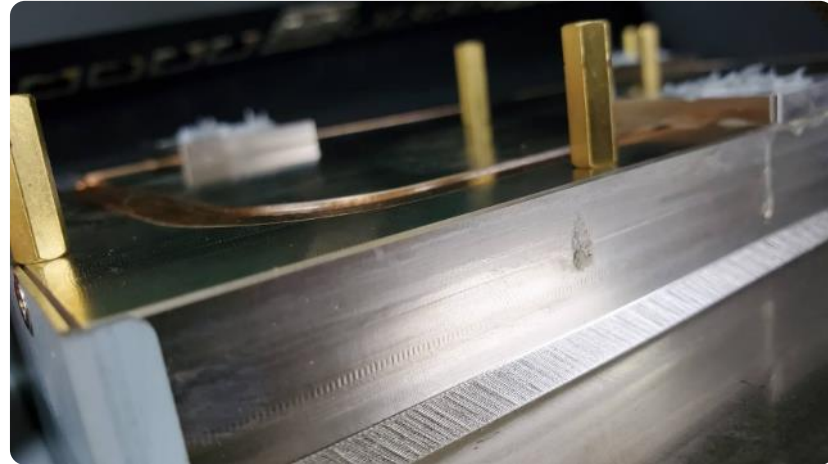
# Fan less with large heatsink design

- Don't need worry about the reliability to the fan
- Serious thermal verification
  - Non natural convection operating temperature  $-30^{\circ}\text{C}$ - $45^{\circ}\text{C}$  ( $-22^{\circ}\text{F}$  - $113^{\circ}\text{F}$ )
  - Natural convection operating temperature ( $0.5\sim 0.7\text{m/s}$ )  $-30^{\circ}\text{C}$ - $65^{\circ}\text{C}$  ( $-22^{\circ}\text{F}$  - $149^{\circ}\text{F}$ )
- Max working temperature of the housing
  - Top  $76^{\circ}\text{C}$ ( $169^{\circ}\text{F}$ )
  - Bottom  $78^{\circ}\text{C}$ ( $172^{\circ}\text{F}$ )

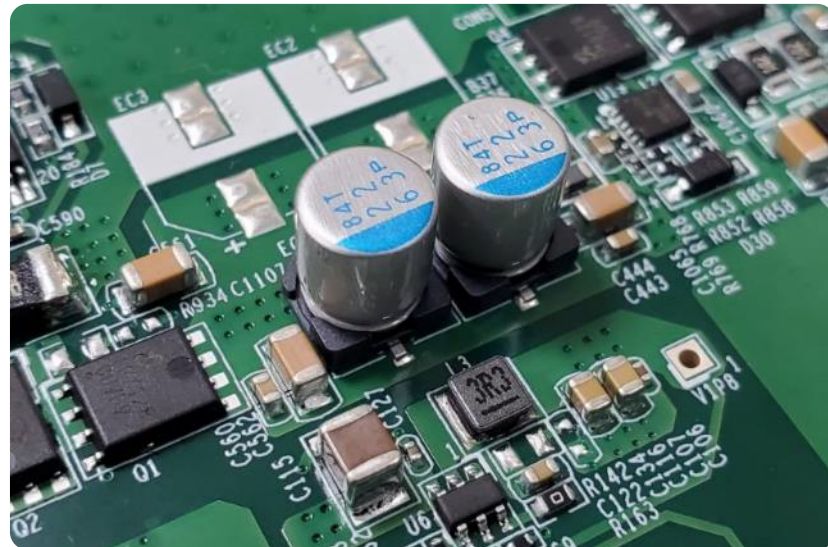


# Optimized thermal design & quality components

**Large conductive and directive heatsink**



**All solid capacitors**



# Industrial-Temperature range SFP+ for testing



## SPECIFICATION

### PRODUCT FEATURES

- Hot Pluggable SFP+ form factor
- Supports 10.3125Gb/s
- Low Power Dissipation, Max 0.8W
- Operating Case Temperature: -40°C~85°C
- Up to 80m transmission with OM2 MMF
- Up to 300m transmission with OM3 MMF
- SFF-8472 Management Interface
- SFF-8432: Pluggable Module
- SFF-8431: General Electrical
- GR-468: Reliability Qualification
- IEEE 802.3ae: Physical Layer Specifications and Management Parameters
- ROHS-6: Environment Safety



### APPLICATIONS

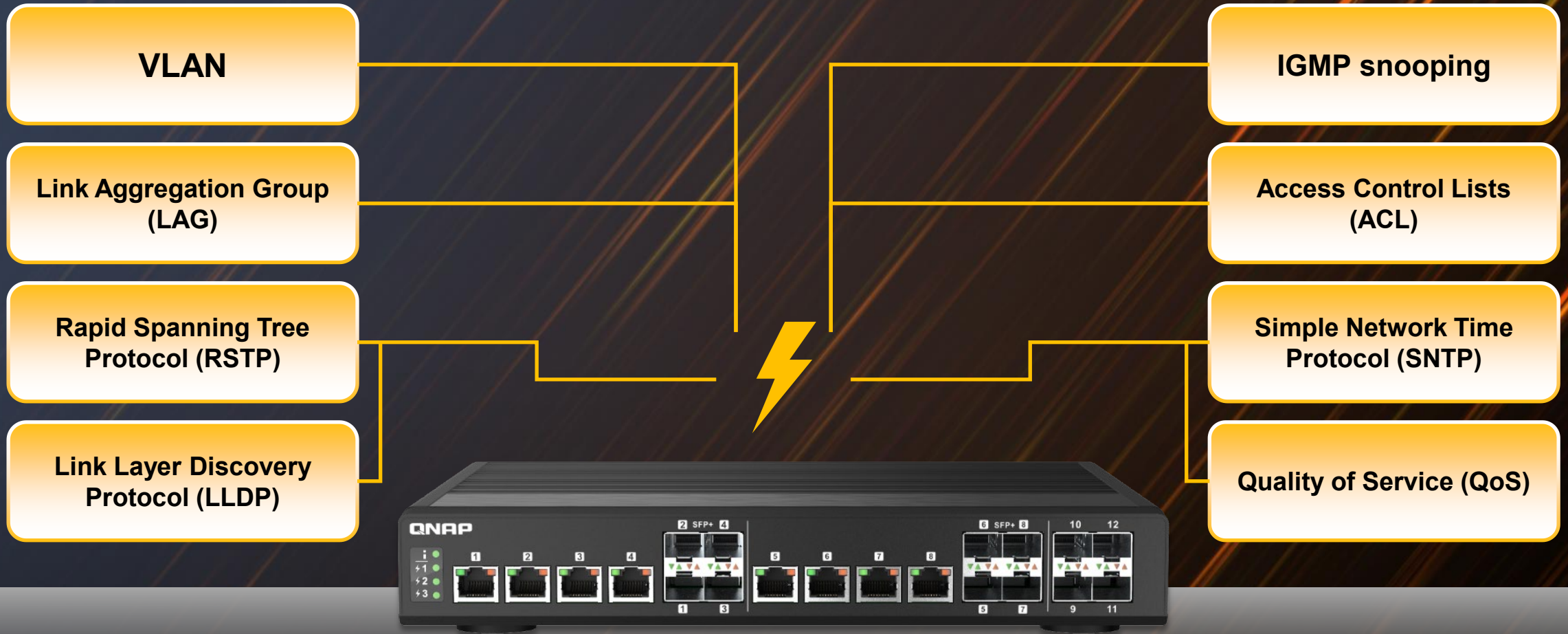
- Ethernet for 10GBASE-SR
- InfiniBand QDR, DDR, SDR

QSW-IM1200-8C

# QSW-IM1200-8C Software

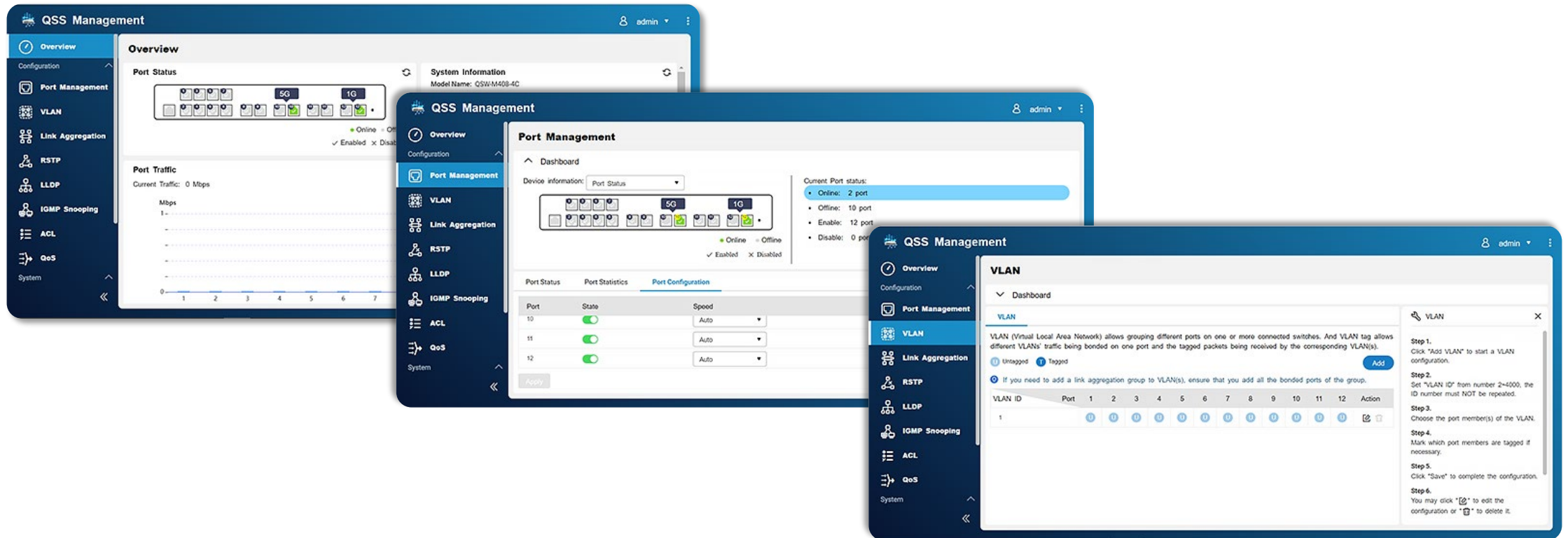


# Rich management functions



# Easy to use GUI design

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



# Raise network speed with multiple network cable

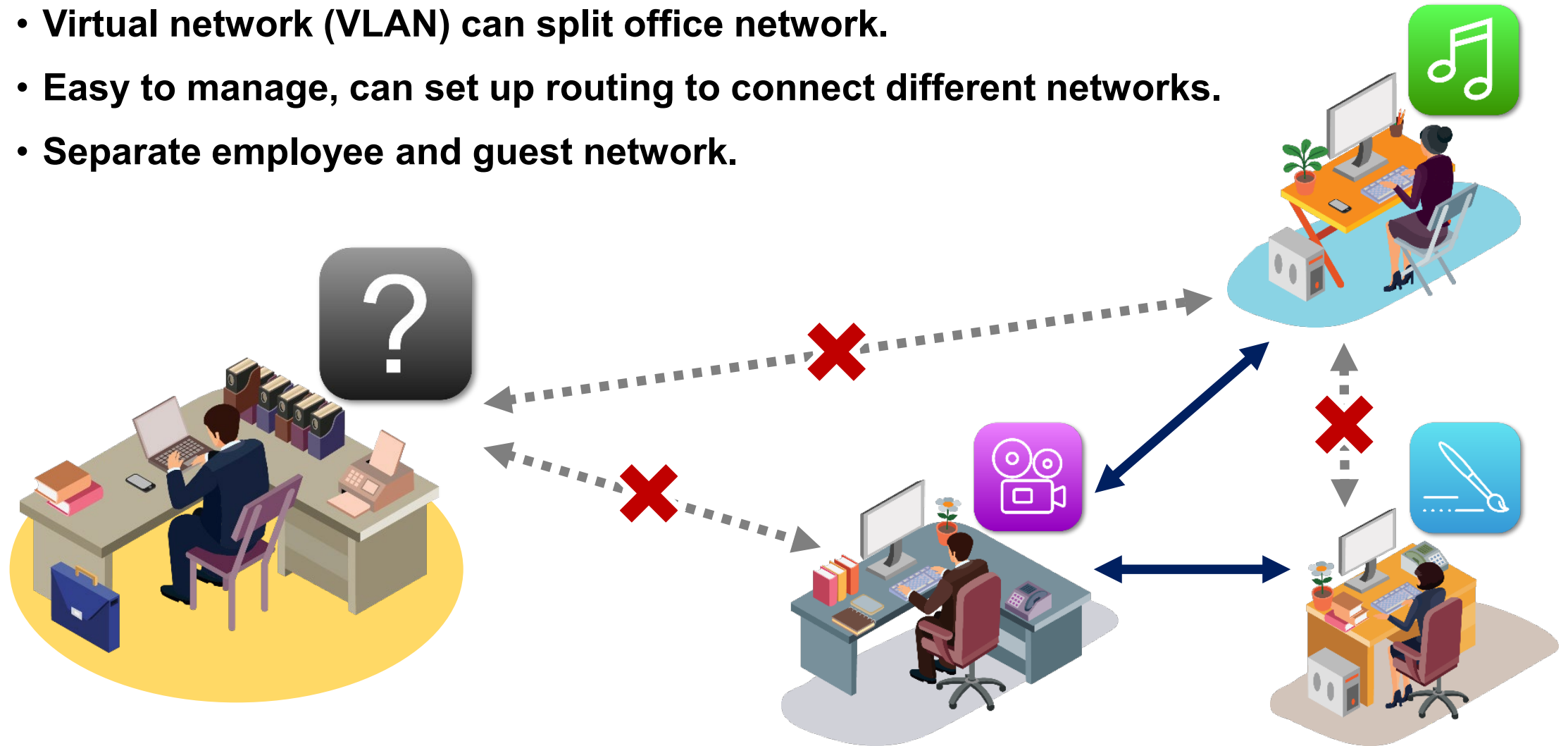
- **Link Aggregation (LAG)** can aggregate multiple network cable into a single logical network.
- **Quick and direct to have a network more than 10GbE.**





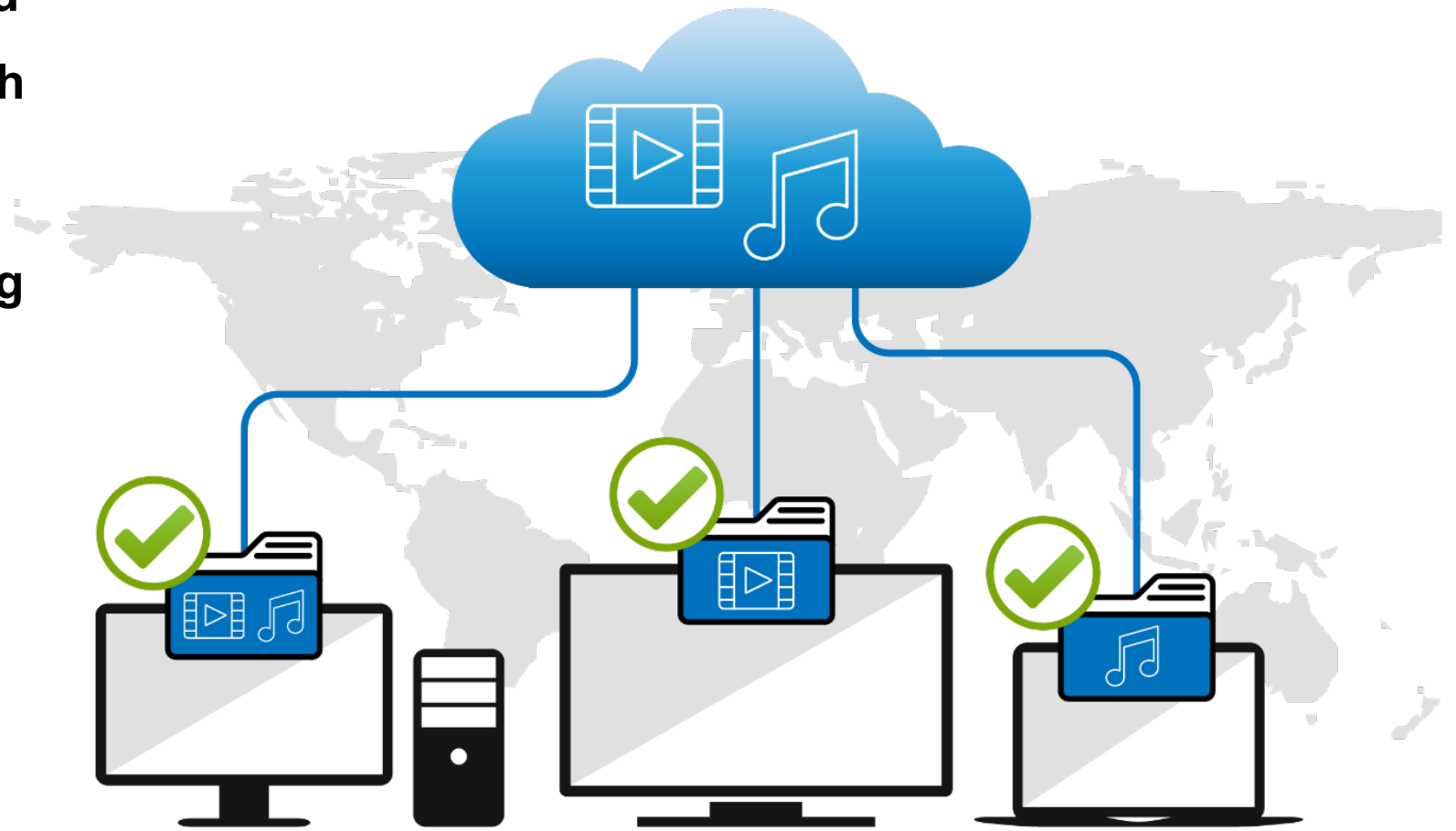
# Split office network into different area

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



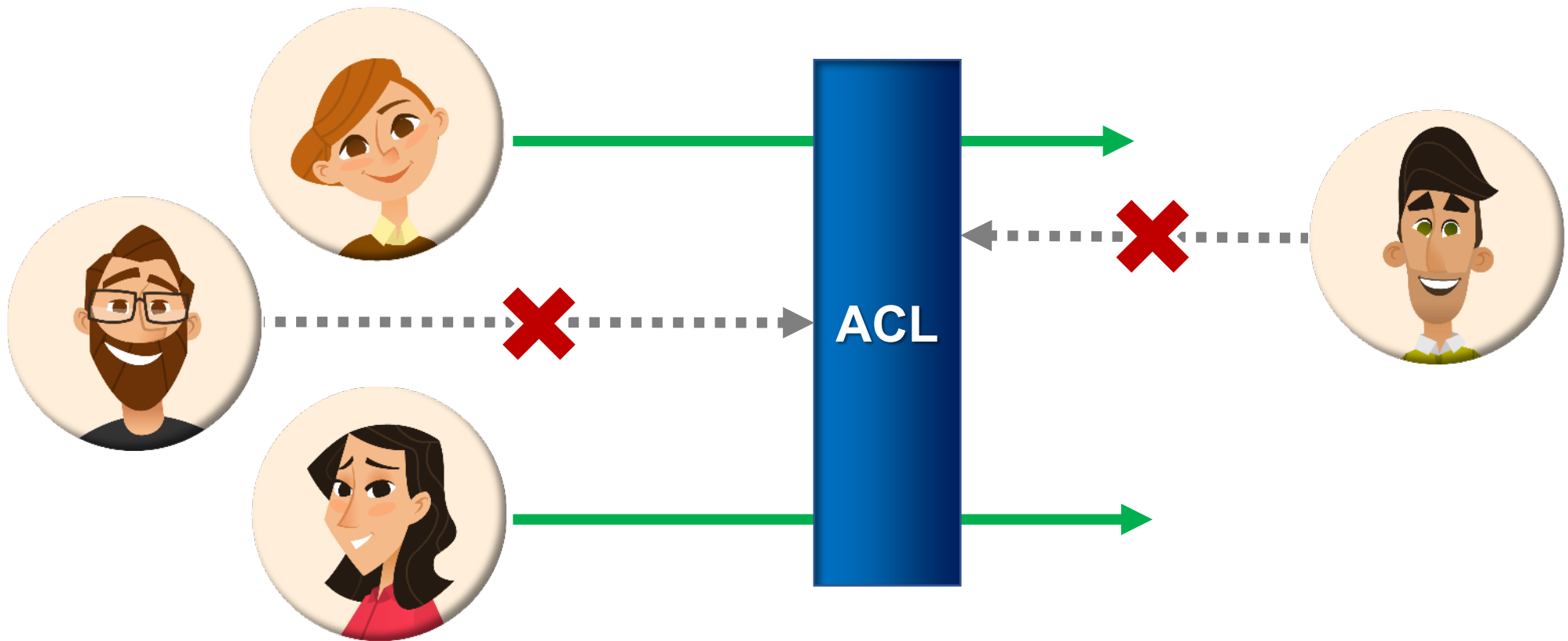
# Deliver streaming to dedicate device specifically

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



# Easy access control

- Access Control List (ACL) can control access specifically.
- To avoid security issue.



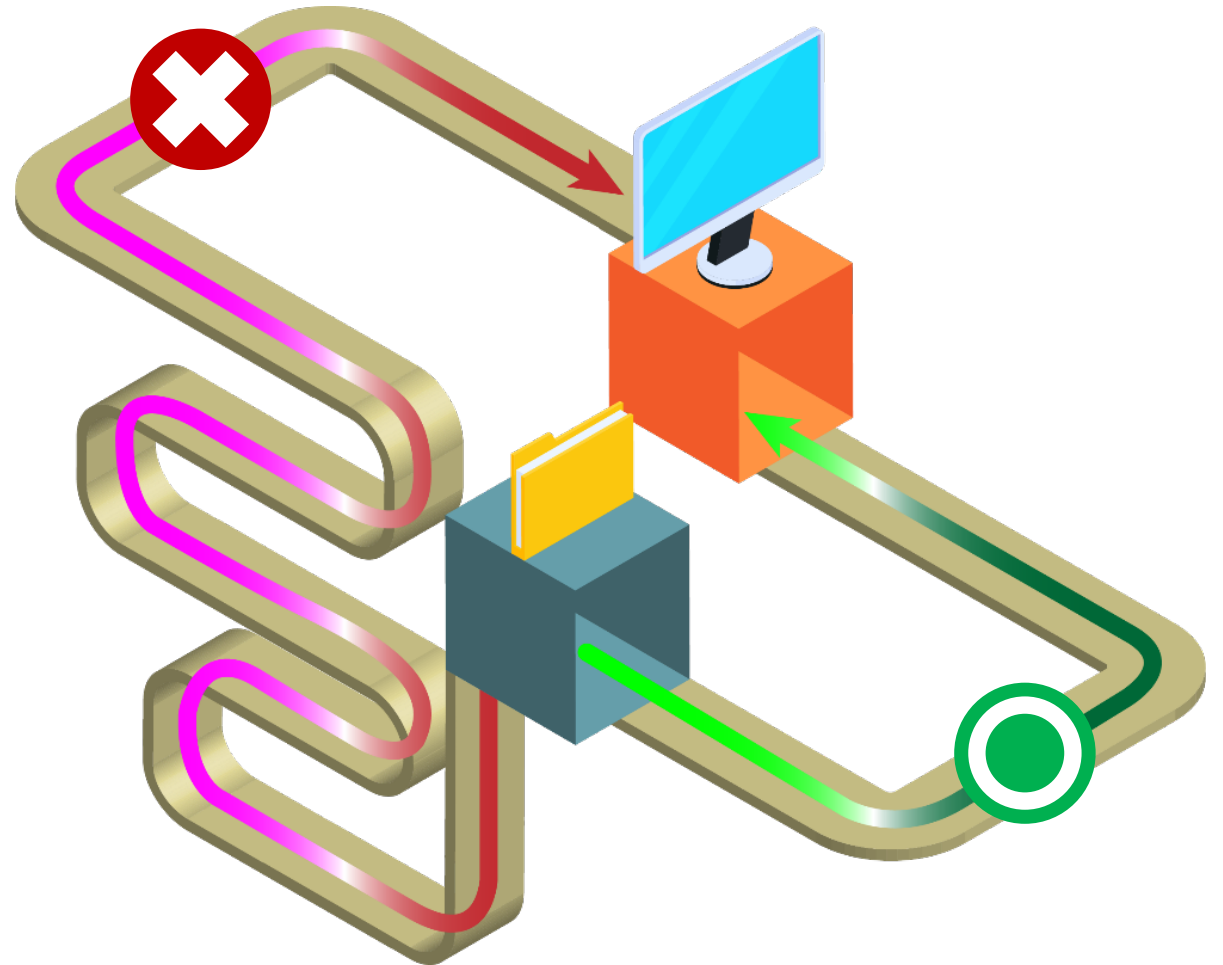
# Firmware version live check



- **One-click update.**
- **Firmware version auto detect.**
- **Manual update.**

# Always looking for best routing

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



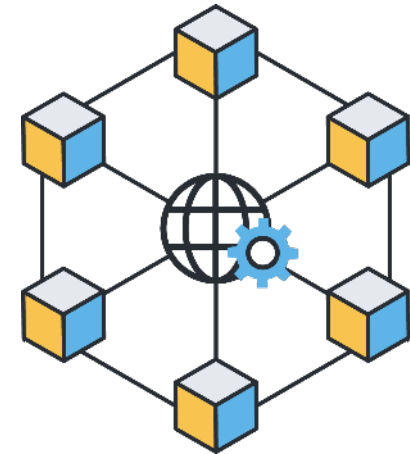
# QSW-IM1200-8C has more



**Ethernet flow control (IEEE 802.3x) managing packet transfer, avoid packet lost.**



**Link Layer Discovery Protocol (LLDP), easy to know which devices are conneted.**



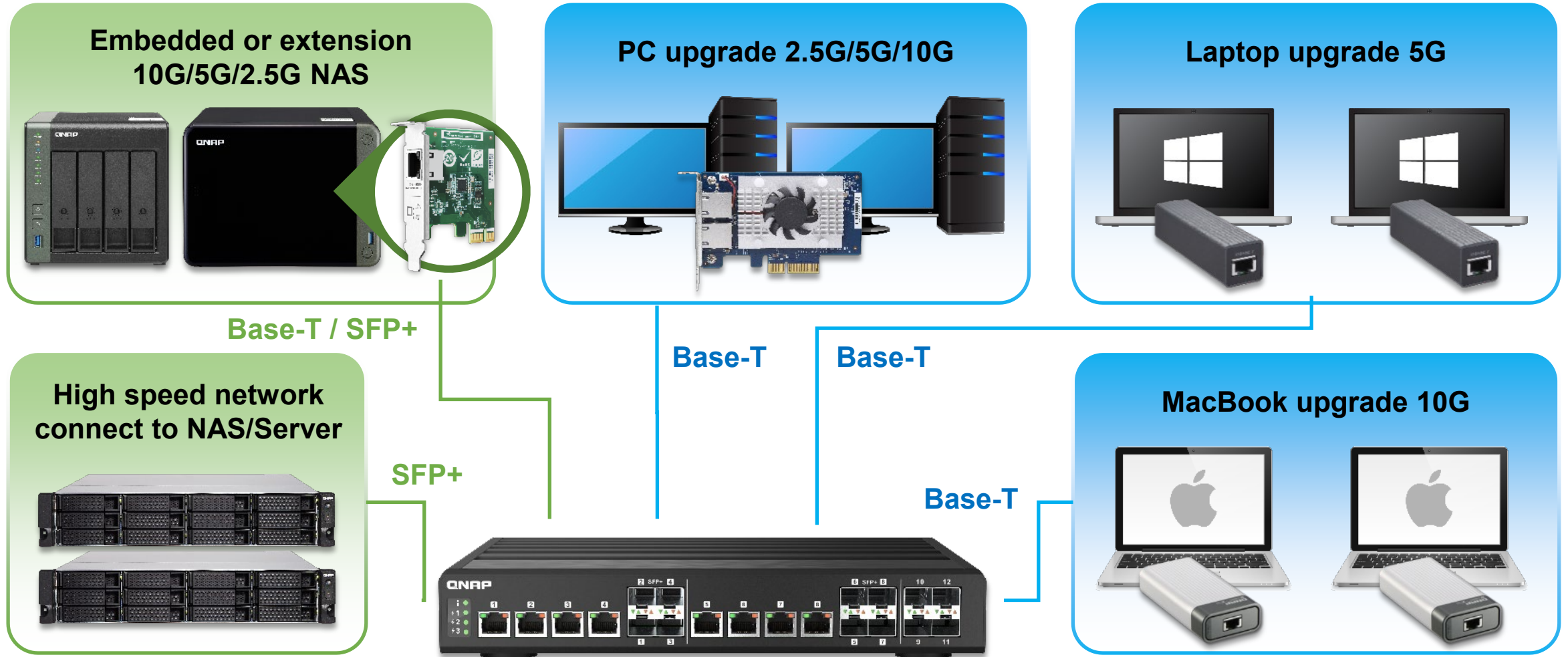
**Network speed auto detect(Auto negotiation) · let devices can connect even in different network speed.**

QSW-IM1200-8C

Perfectly integrated  
with QNAP 10GbE  
products



# 12 port 10GbE combo port give flexiabile deployed





# Tablet NAS with embedded 2.5/5/10GbE

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

With **2.5GbE BASE-T**



TS-h886 / TS-h686



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



TS-431P3 / TS-231P3

# Rack mount network NAS with embedded 2.5/5/10GbE

## With 10GbE BASE-T & SFP+

QutS hero edition  
TS-h1283XU-RP



TS-h1283XU-RP

QutS hero edition  
TS-h1277XU-RP



TS-h977XU-RP  
TS-h1277XU-RP



GM-1002/1002



TVS-x72XU

## With 2.5GbE BASE-T



TS-451DeU



TS-x73AU



TS-x53DU



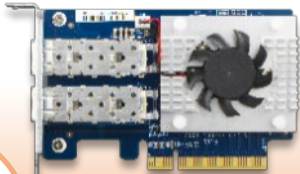
TS-x32PXU

+ 2x 10GbE SFP+

# Network extension : rich PCIe network extension card

## 10GbE series

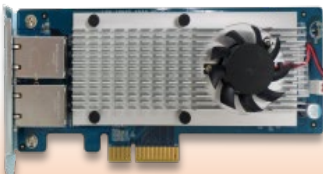
### QXG-10G2SF-CX4



2 x SFP+



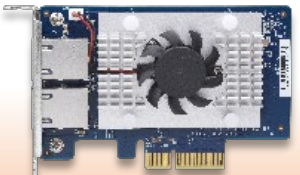
### LAN-10G2T-X550



2 x RJ45



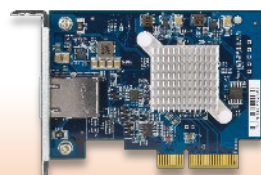
### QXG-10G2T-107



2 x RJ45



### QXG-10G1T



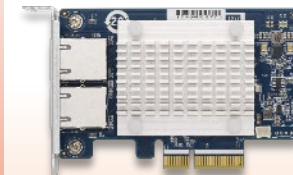
1 x RJ45

## 5GbE series

### QXG-5G Family



1 x RJ45



2 x RJ45



4 x RJ45



## 2.5GbE series

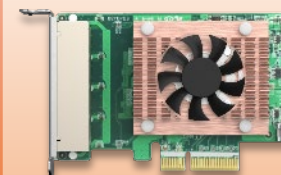
### QXG-2.5G Family



1 x RJ45



2 x RJ45



4 x RJ45



# Network extention : hand carry adaptor

## QNA-UC5G1T



### USB 3.2 Gen 1

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

USB Plug and play upgrade your PC/Laptop to 10GbE high speed network

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

## QNA-T310G1T



### Thunderbolt 3

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

USB Plug and play upgrade your PC/Laptop to 10GbE high speed network, through Thunderbolt

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

**QNAP**

# QSW-IM1200-8C

is your best choice!

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Industrial design



Fanless



Highest operation temperature  
0°C-65°C



12 x 10GbE ports switch



Managed switch

