

**QNAP**

# QSW-M2116P-2T2S

L2 2.5GbE/10GbE PoE++ Managed Switch

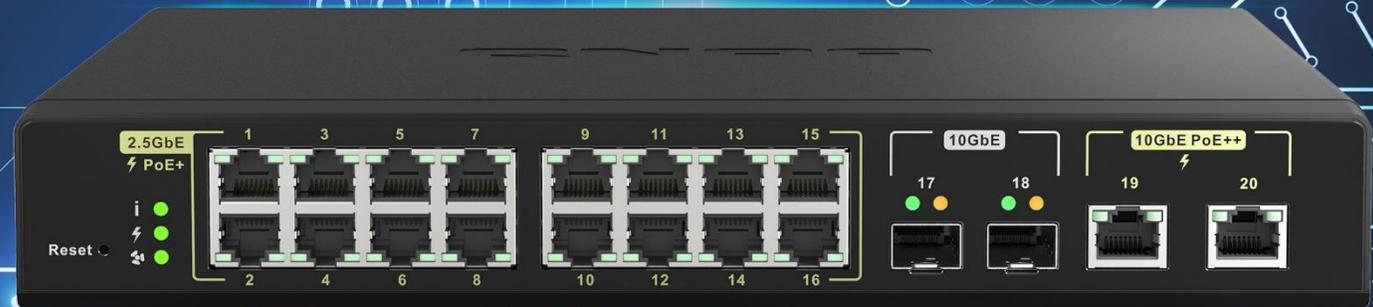
Deploys PoE power devices in stable office/store environment and provides high speed network

Full  
2.5GbE x 10GbE  
Managed



QSW-M2116P-2T2S

**2.5GbE + 10GbE + 802.3at/bt POE can resolve  
all the problems with single device for  
office/store**



# Internet bandwidth can upgrade to 10GbE, let devices in the store can enjoy high speed internet access

QHora-301W



10GbE Fast



QSW-M2116P-2T2S



# Providing PoE service, and give high speed backbone for cross building or floors connection at the same time

QHora-301W



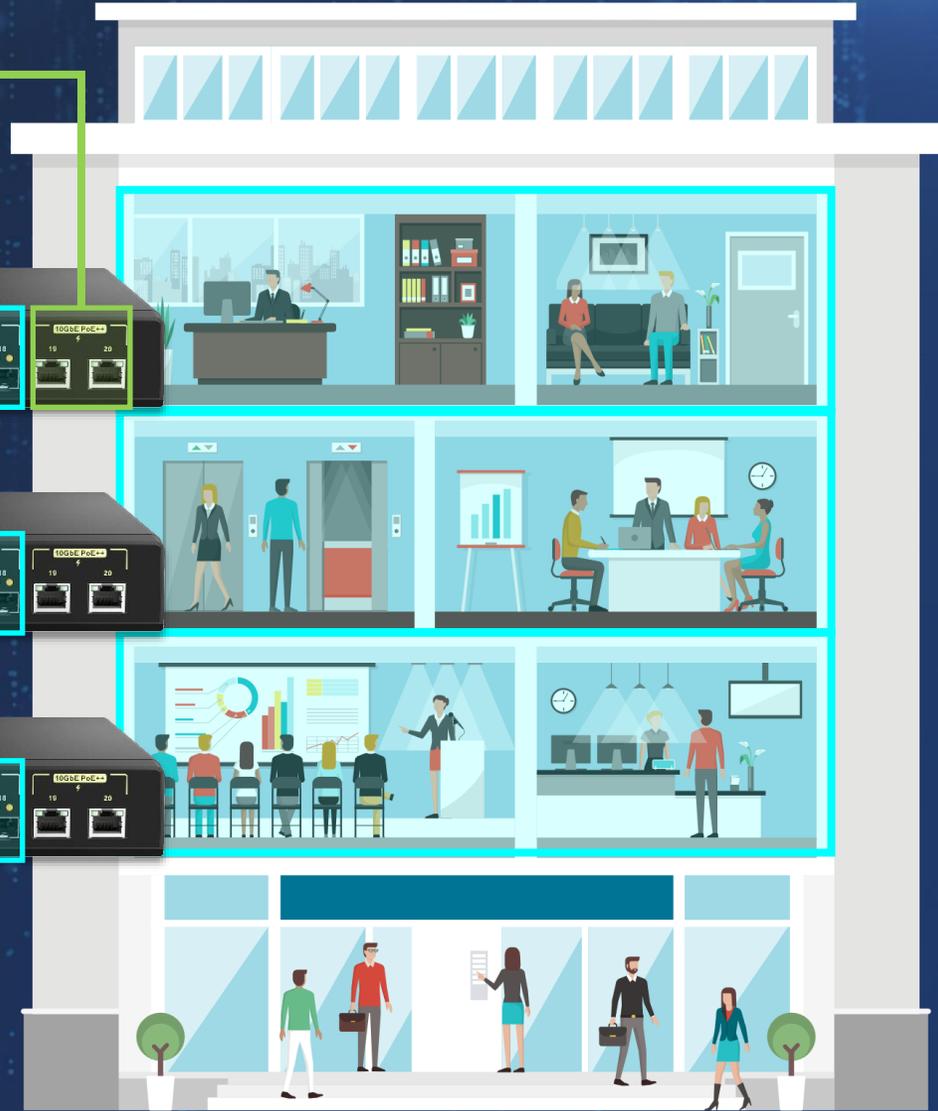
10GbE Fast



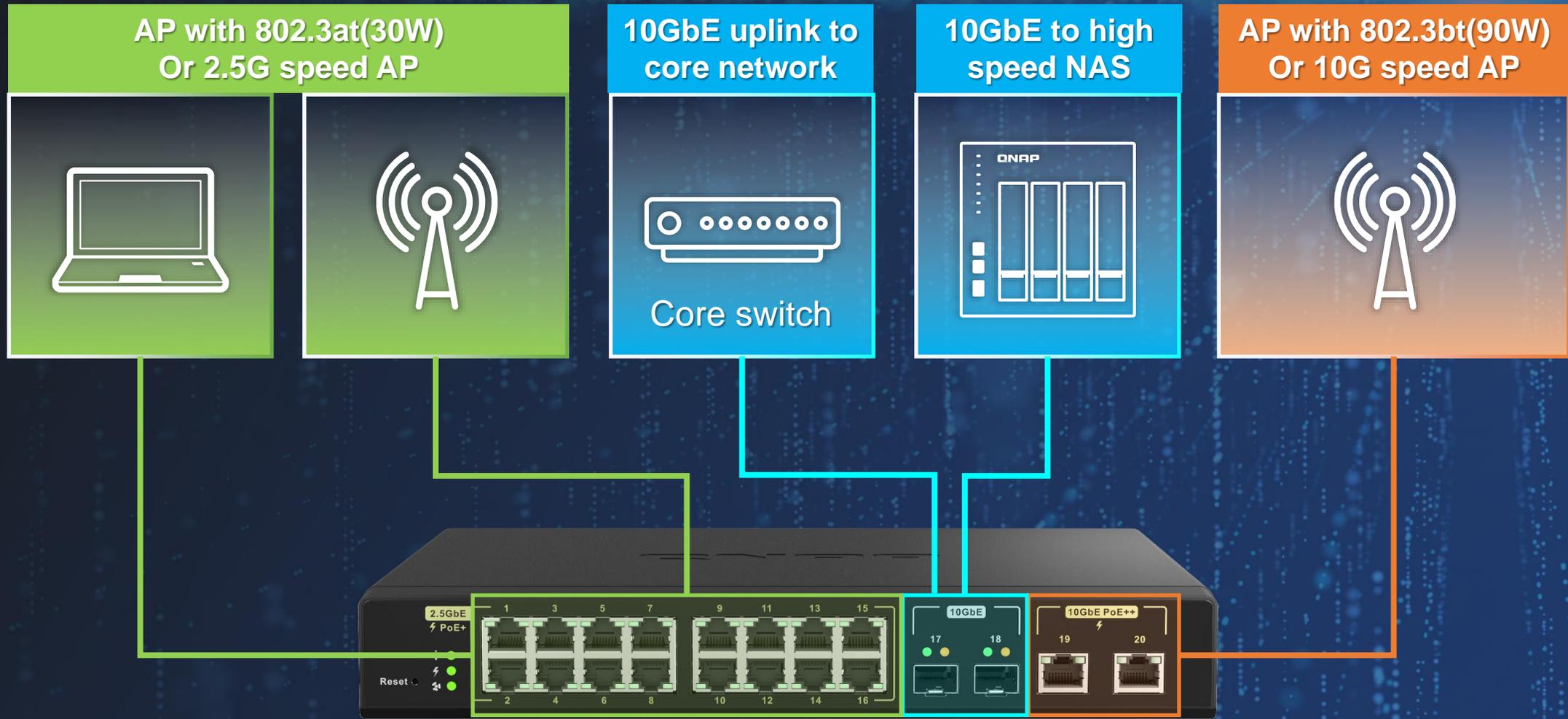
10GbE Fast



10GbE Fast



# QSW-M2116P-2T2S can take care backbone and AP at the same time



# QSW-M2116P-2T2S

can take care your PoE power device and backbone network

## Support multiple PoE standard

- 2.5GbE + 802.3at(30W)
- 10GbE + 802.3bt(90W)
- PoE Power consumption up to 280W
- Smart PoE managed interface

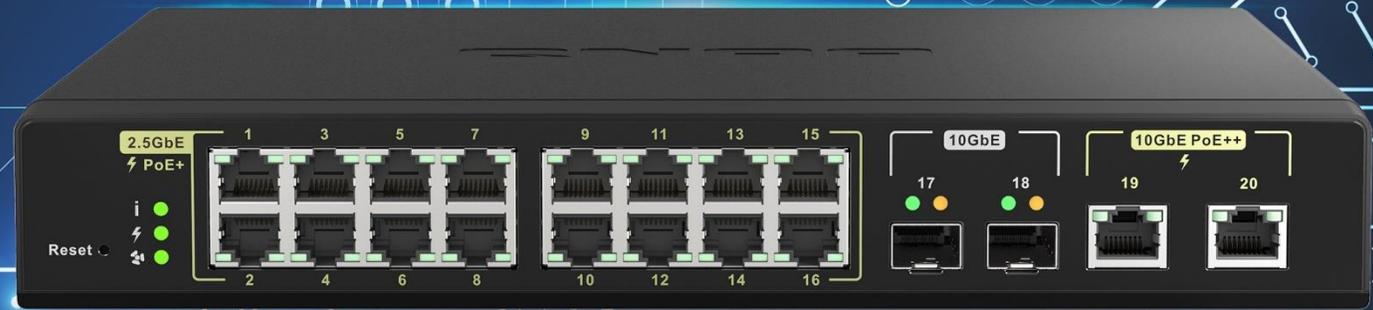
## Multiple options of uplink connector

- 10GbE RJ45 with 802.3bt(90W)
- 10GbE SFP+



QSW-M2116P-2T2S

A lot of services  
can base on PoE to get power



# It is coming up with high speed AP

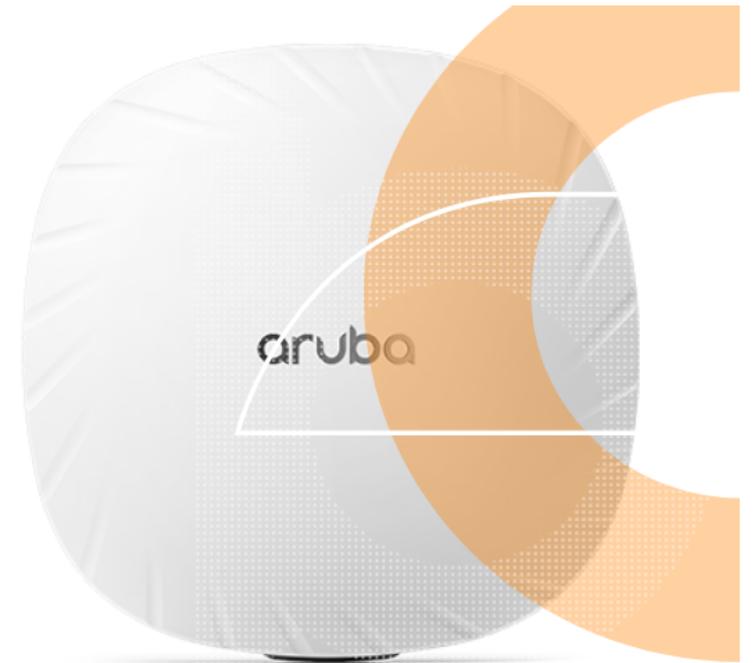
[HOME](#) / [PRODUCTS](#) / [WIRELESS](#) / [ACCESS POINTS](#) / [INDOOR ACCESS POINTS](#) / [ARUBA 530 SERIES](#)

## Aruba 530 Series Wi-Fi 6 Campus APs

High performance 802.11ax wireless for high density mobile and IoT deployments

[530 SERIES DATA SHEET](#) → [530 SERIES ORDERING GUIDE](#) →

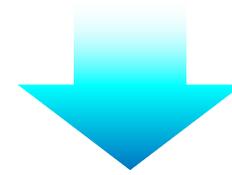
[CONTACT SALES](#)



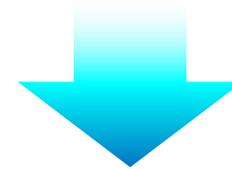
# The service speed also getting faster



**IEEE 802.11n (Wi-Fi 4) up to 600Mb/s**



**IEEE 802.11ac (Wi-Fi 5) up to 6.9Gb/s**



**IEEE 802.11ax (Wi-Fi 6) up to 9.6Gb/s**

# For high speed wireless means APs need get more power for serving the clients

Dimensions	420 x 220 x 30 mm (16.53 x 8.66 x 1.18")
Weight	1.20 kg (2.65 lb)
With Mounting Kits	1.35 kg (2.98 lb)
Networking Interface	(1) 10/100/1000 Ethernet Port (1) 1/10 Gbps ICM Ethernet Port
Buttons	Reset
Power Method	802.3bt PoE
Supported Voltage Range	44 to 57VDC

## Power Sources and Power Consumption ^

The AP supports direct DC power and Power over Ethernet (POE; on port E0 and/or E1)

When POE power is supplied to both Ethernet ports, the AP can be configured to combine or prioritize power sources

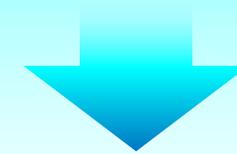
When both DC and POE power sources are available, DC power takes priority over POE

Power sources are sold separately; see the ordering Information section below for details

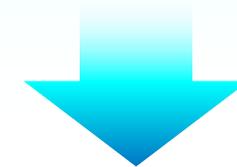
When powered by DC, 802.3bt (class 5) POE or 2x 802.3at (class 4) POE, the AP will operate without restrictions.

**Demand of PoE also getting higher**

**802.3af(15W)**



**802.3at(30W)**



**802.3bt(90W)**

# All these services are needed PoE

## Get power from PoE

### 4K PTZ Surveillance

Powering multiple cameras for store monitoring



### Electronic menu

Provide power and networking capabilities



### Point of Sales

Consumption behavior analysis and data storage



### WiFi 5/6 PoE Access point

PoE powered and supports installation of AP Controller software



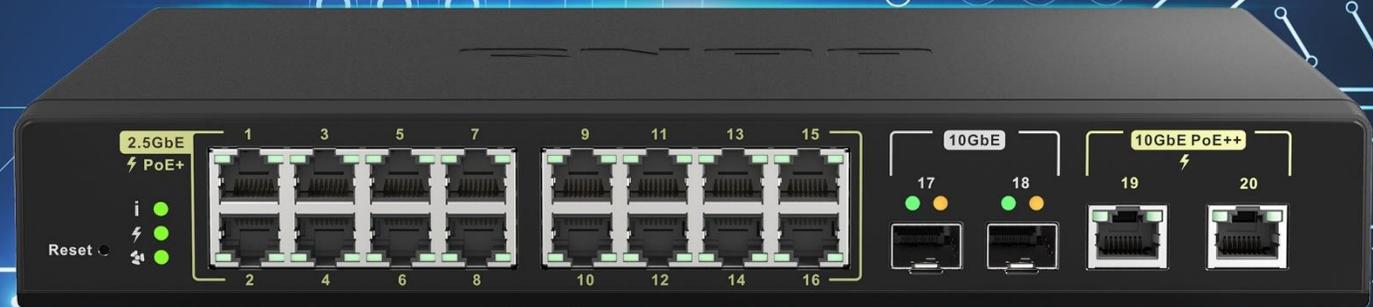
### Digital Signage

Provide power and content management



QSW-M2116P-2T2S

Now we had PoE,  
how about the Uplink network?



# Lots of end point devices are running in the store, but internet bandwidth is slow...

1GbE loading...



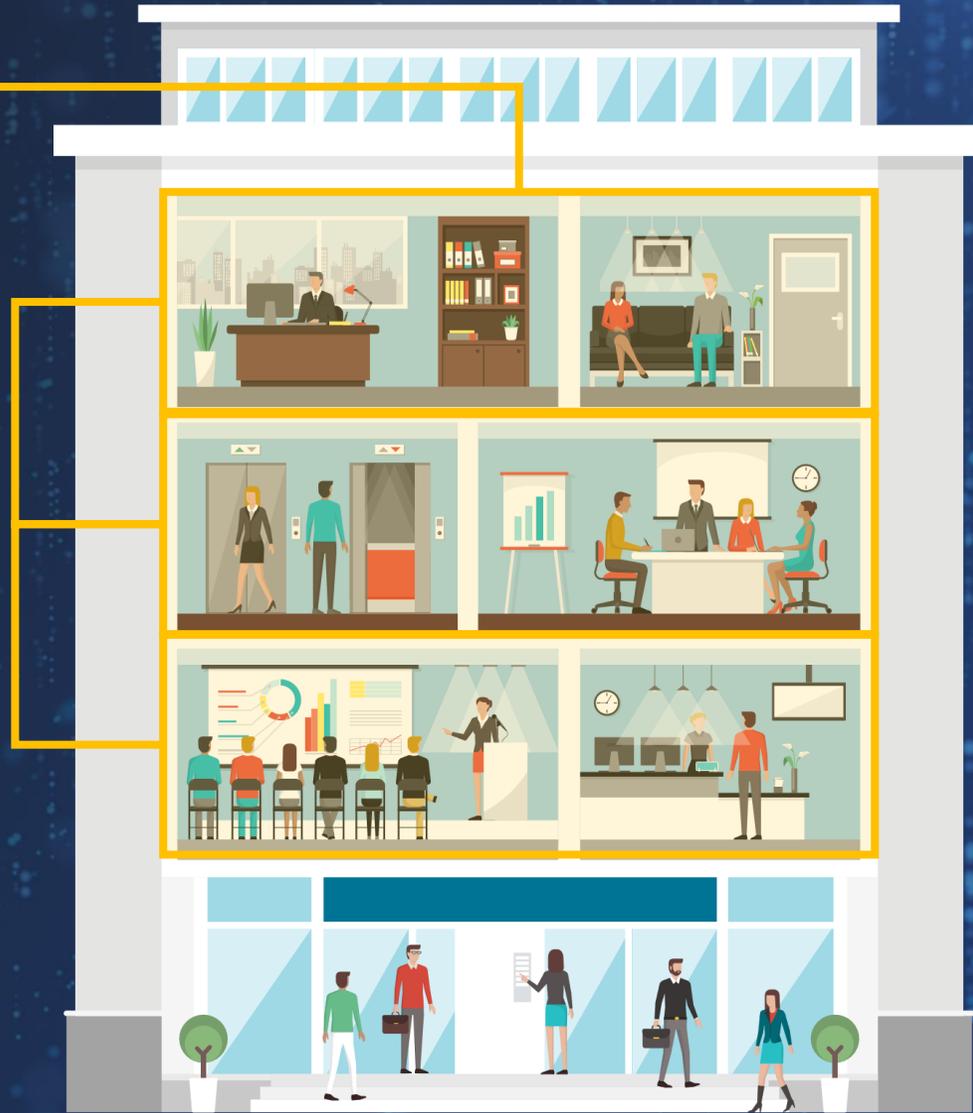
# There are many APs in different floors, but the backbone is very slow...



**1GbE** Slow...

**1GbE** Slow...

**1GbE** Slow...



# 10GbE can let network speed faster no matter for single device or multiple

QHora-301W



10GbE Fast



QSW-M2116P-2T2S

QHora-301W



10GbE Fast



10GbE Fast

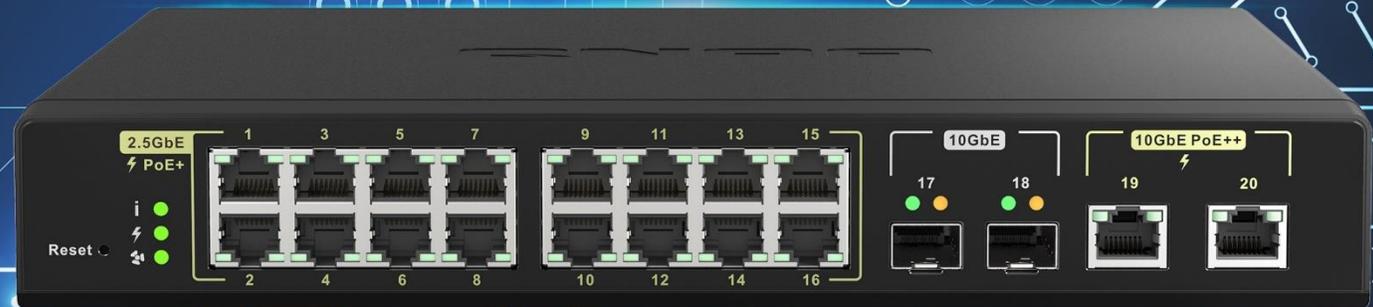


10GbE Fast



QSW-M2116P-2T2S

# Hardware introduction



# QSW-M2116P-2T2S front panel



**Independent fan status LED**

- Considering about it will have a lot of PoE demand, thermal is becoming a serious situation need to be monitored.
- Independent fan status LED can let you know is fan work in normally or not.

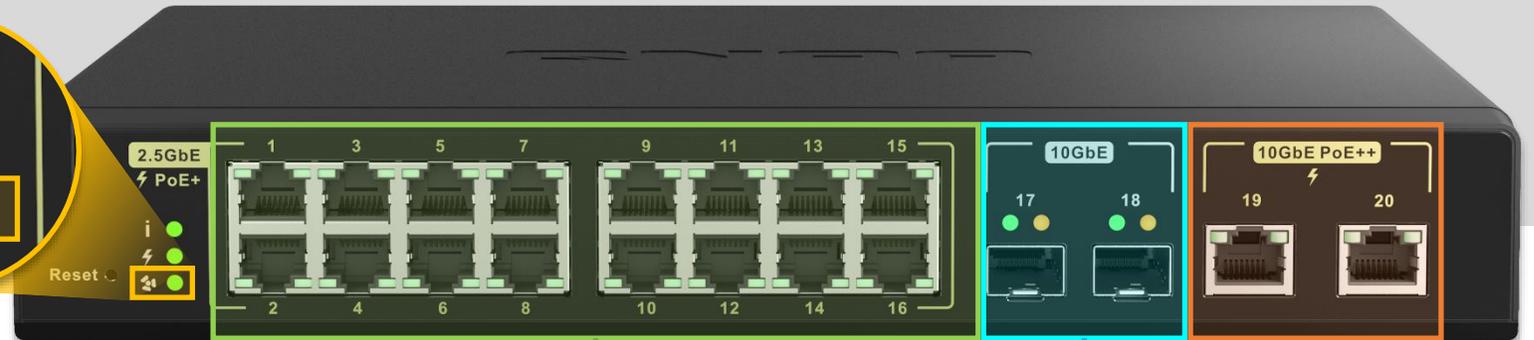


**PoE power consumption up to 280W**

**16 x 2.5GbE RJ45 with 802.3at(30W)**

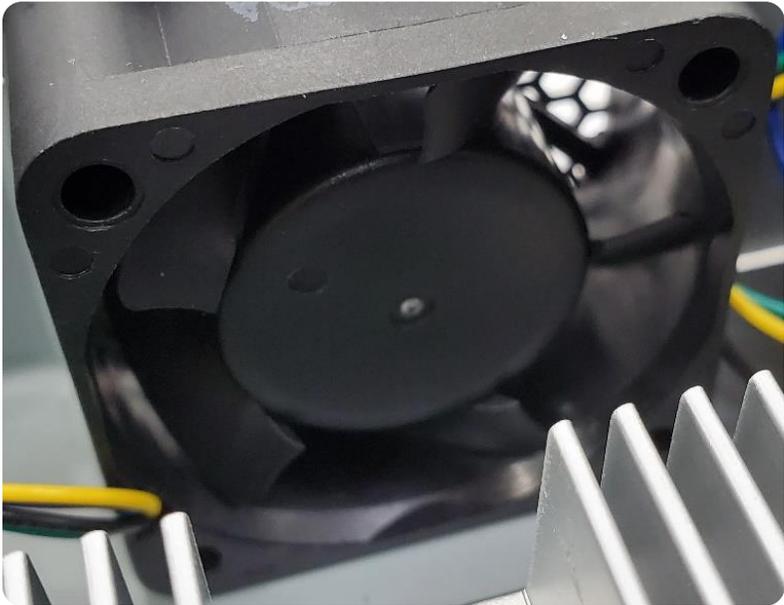
**2 x 10GbE SFP+**

**2 x 10GbE RJ45 with 802.3bt(90W)**

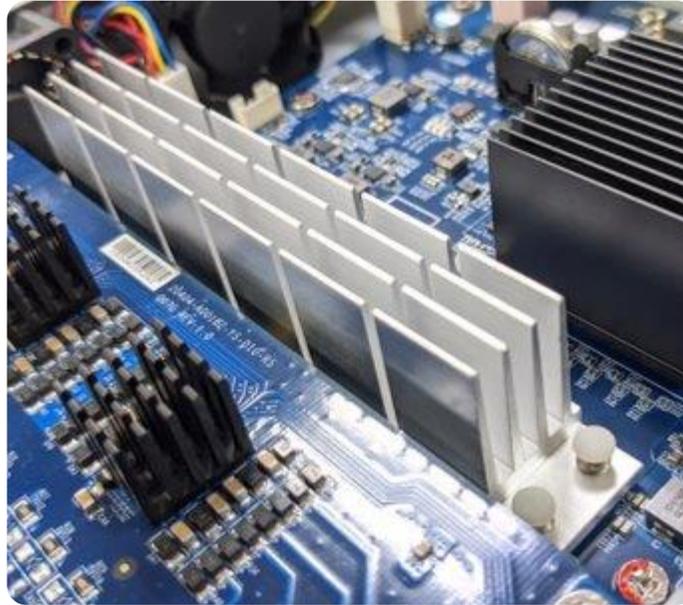


# Optimized thermal design & quality components

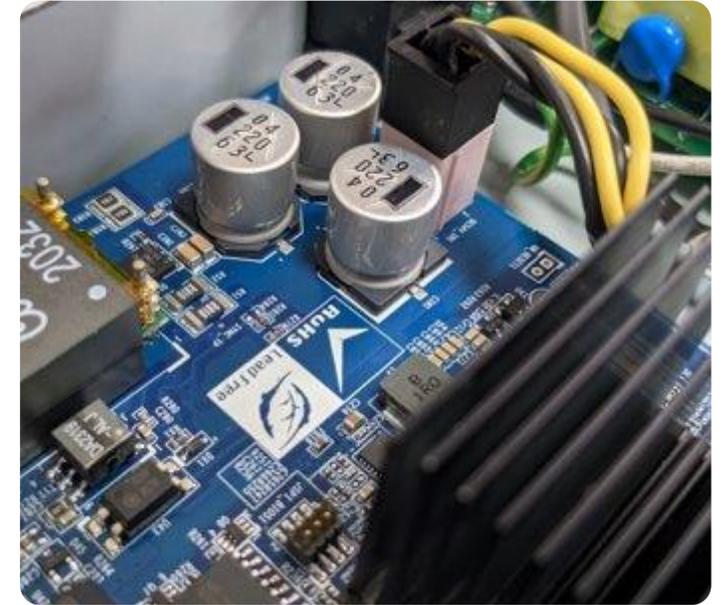
**PWM double ball bearing fan**



**Large conductive and directive heatsink**

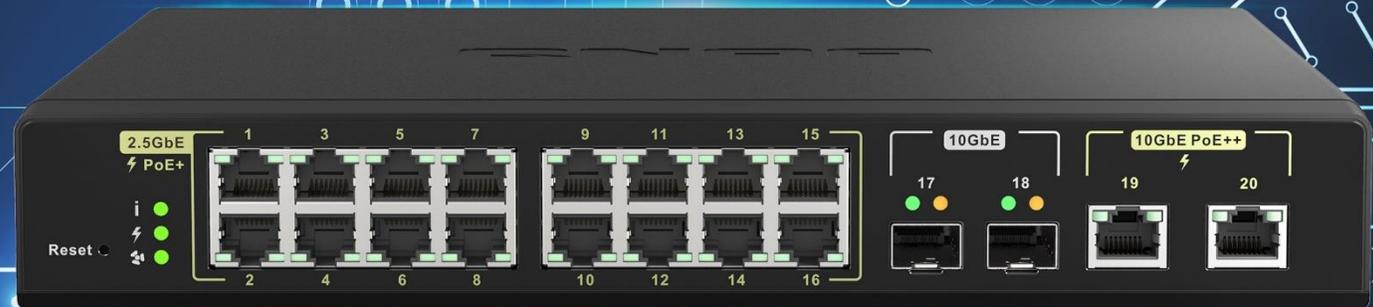


**All solid capacitors**



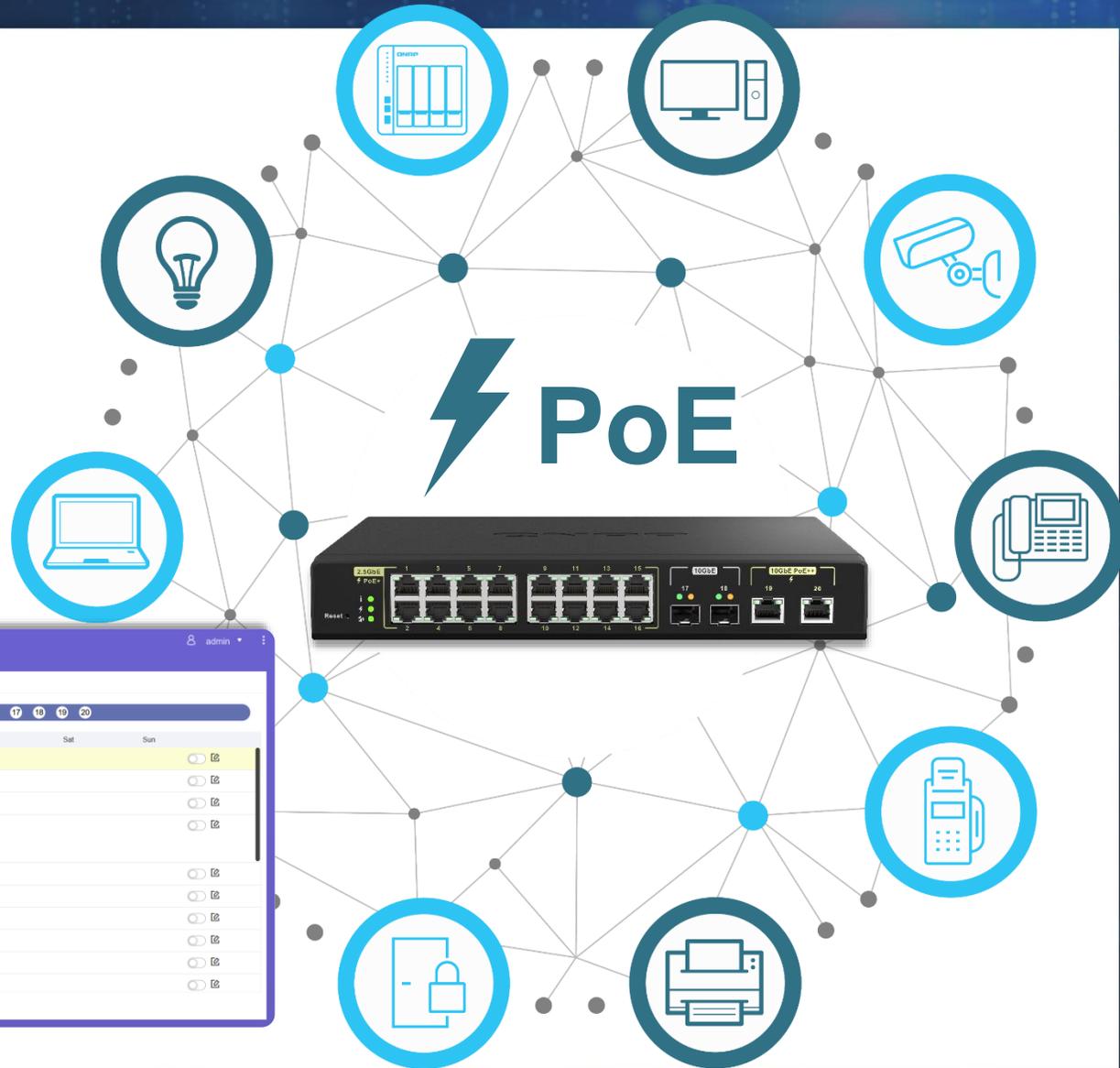
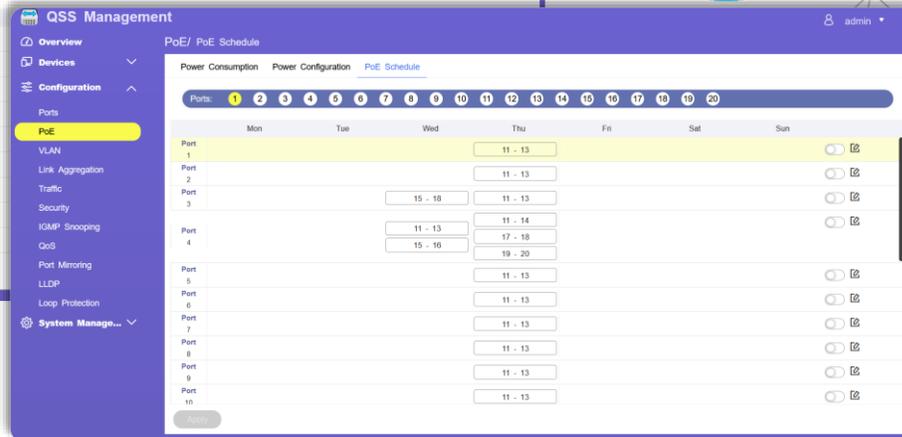
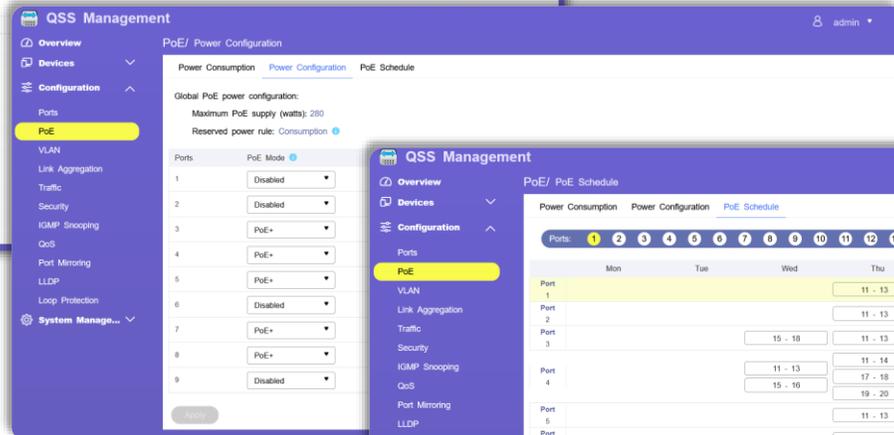
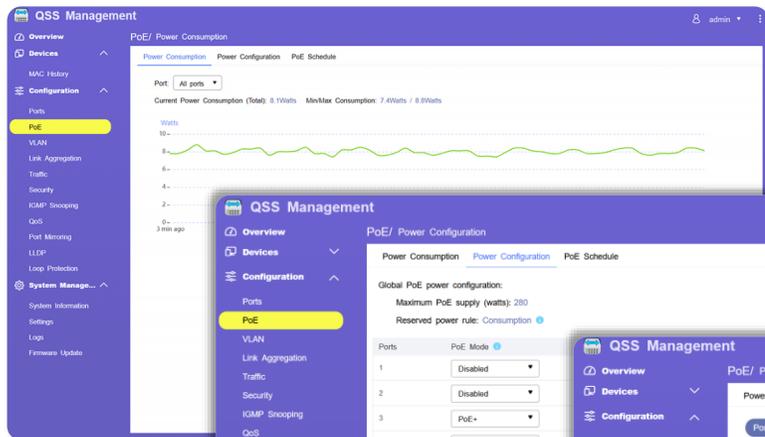
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# Software introduction



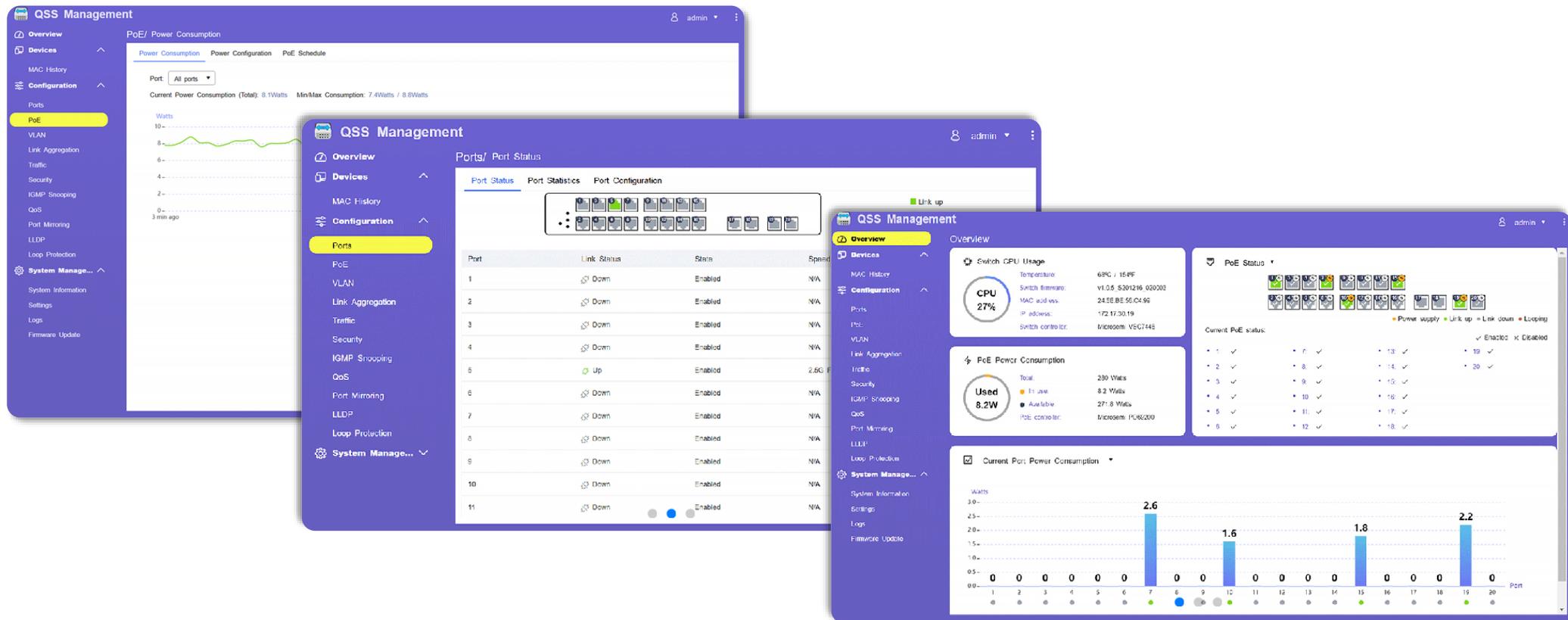
# Fully managed your PoE status

- Realized the PoE budge
- Power prioritized and remote reboot PD
- Setup PoE scheduling



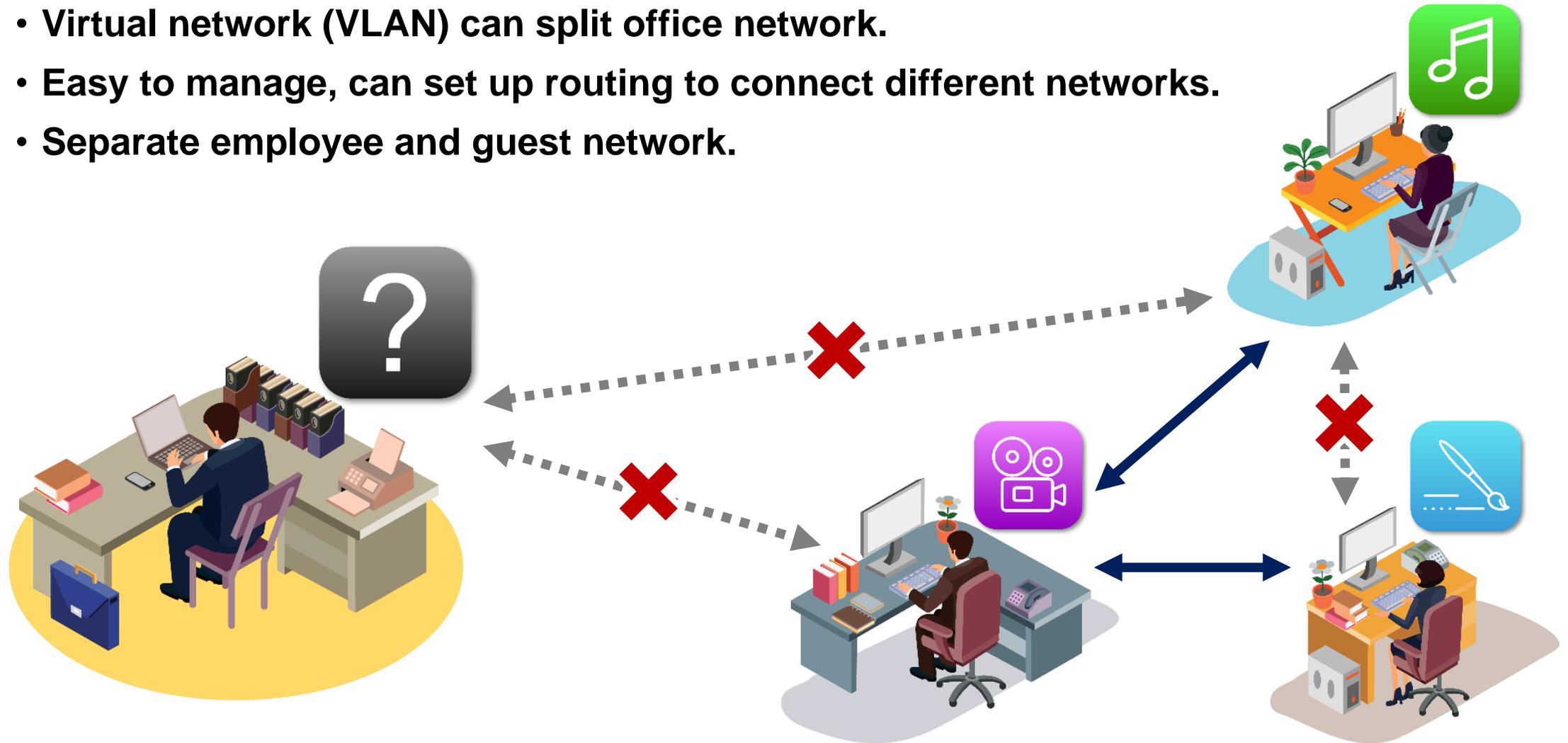
# Easy to use GUI design

- 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.



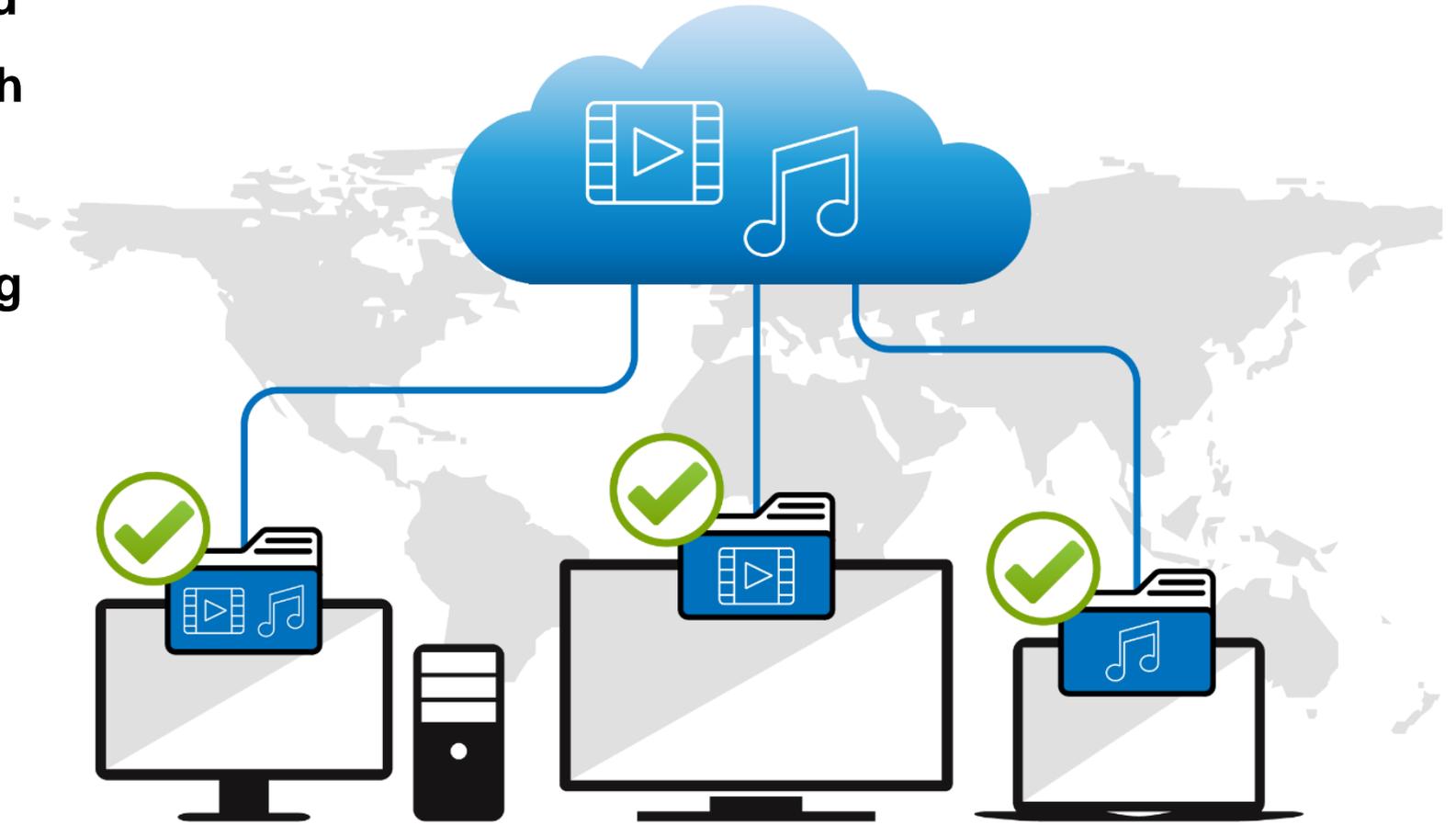
# Raise network speed with multiple network cable

- **Link Aggregation (LAG) 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.



# Firmware version live check



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

# QSW-M2116P-2T2S have more



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



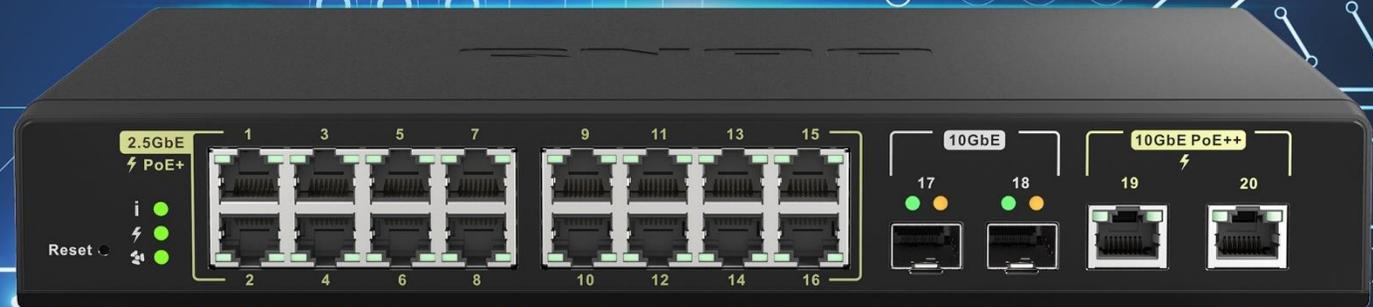
**Link Layer Discovery Protocol (LLDP), easy to know which devices are conneted.**



**Energy-Efficient Ethernet (IEEE 802.3az) and fan speed control, managing power consumption.**

QSW-M2116P-2T2S

Perfectly integrated  
with QNAP high speed products



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

## Professional high efficiency network storage



TS-653D



TS-453D



TS-253D



TS-431X3



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

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



## Digital home with high quality of streaming



TS-431P3



TS-231P3

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



# 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

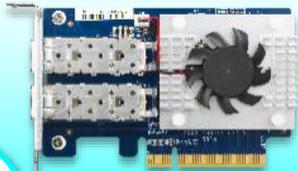


TS-431P3 / TS-231P3

# Network extension : rich PCIe network extension card

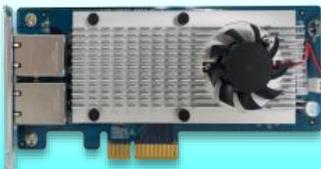
## 10GbE Series

### QXG-10G2SF-CX4



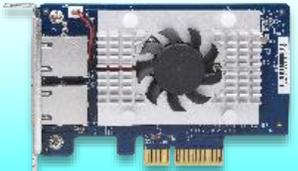
2 x SFP+

### 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 extension : hand carry adaptor

## QNA-UC5G1T



### USB 3.2 Gen 1

- RJ45 NBASE-T
- 4速: 5G/2.5G/1G/100M

USB Plug and play upgrade your PC/Laptop to 5GbE 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-M2116P-2T2S

is your best choice!

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Full  
2.5GbE x 10GbE  
Managed

