

QNAP

L2 網管型10GbE/2.5GbE交換器

QSW-M2106 series

網速升級，滿足多種連線需求

2.5GbE x 10GbE



QSW-M2106-4S



QSW-M2106-4C

越來越龐大的資料傳輸量，越來越快的無線網路

- 不斷演進的影音格式

- Video format evolution (720p→1080p→4K Ultra HD >8K UHD→10K)

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

- WiFi: WiFi5→WiFi6→WiFi6E→WiFi7

- 隨著無線網路技術的升級，實體線路速度也必須跟著往上，要搭配2.5GbE port甚至10GbE port

10GbE port 2.5GbE port

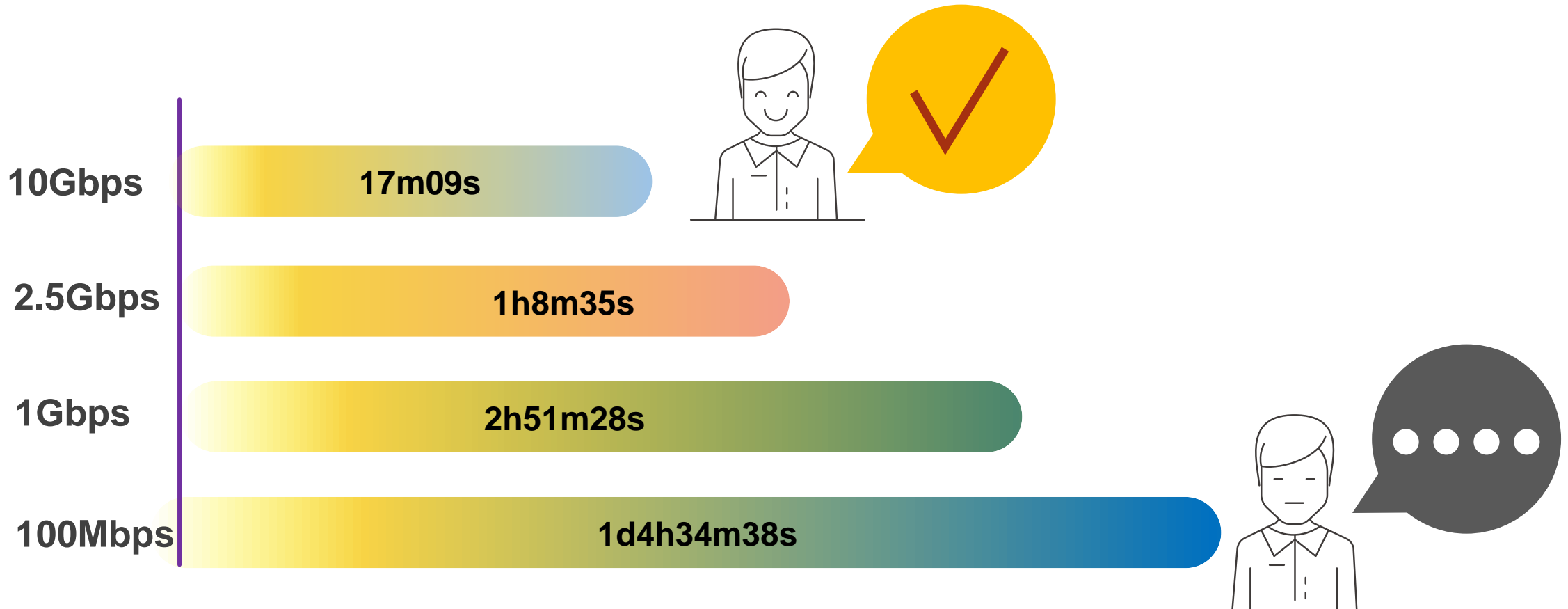


Netgear RBKE963B
WiFi 6E MESH system

想花多少時間等待？

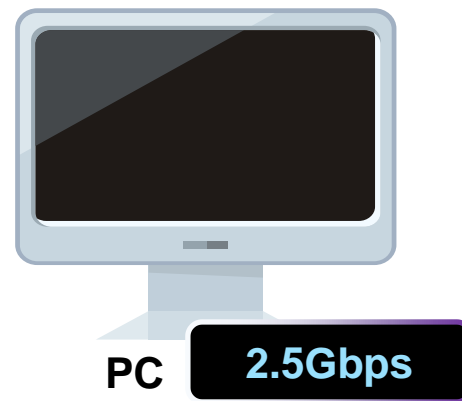
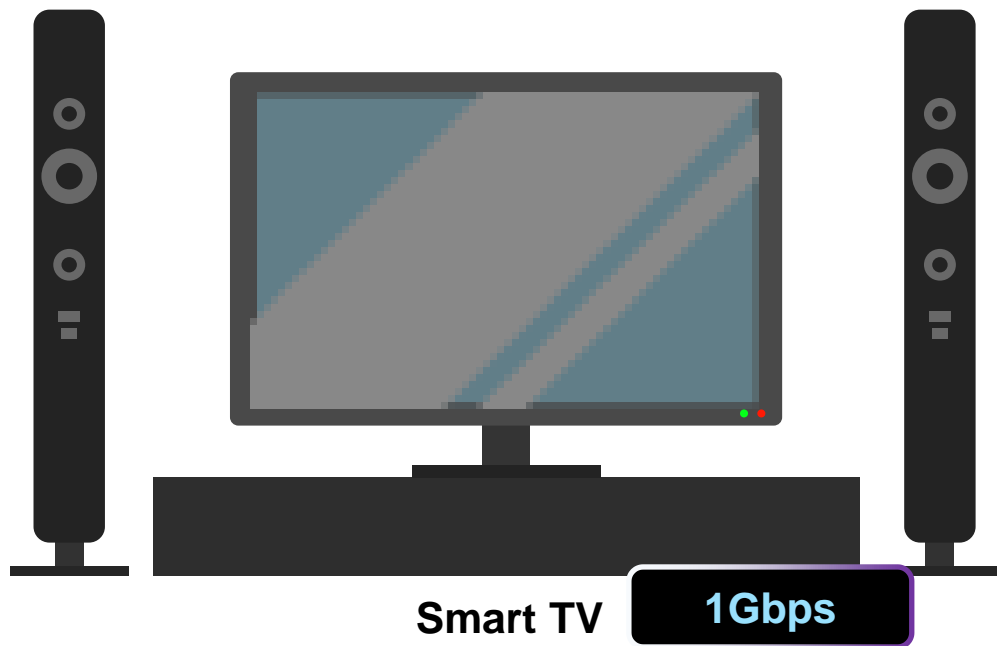
備份1 TB所需預估時間

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



真的需要全10GbE交換器嗎？

雖然10GbE很快，但還是有其他機器不是10GbE.....



1GbE目前夠用，以後呢？

- 越來越多設備配備2.5GbE
- 購買交換器，與其之後受限，不如一次到位2.5GbE



Netgear AXE7800



TP-Link Archer AX6000



TP-Link Archer GX90



QNAP TS-431P3

QNAP TS-231P3



Gigabyte Z490 AORUS MASTER

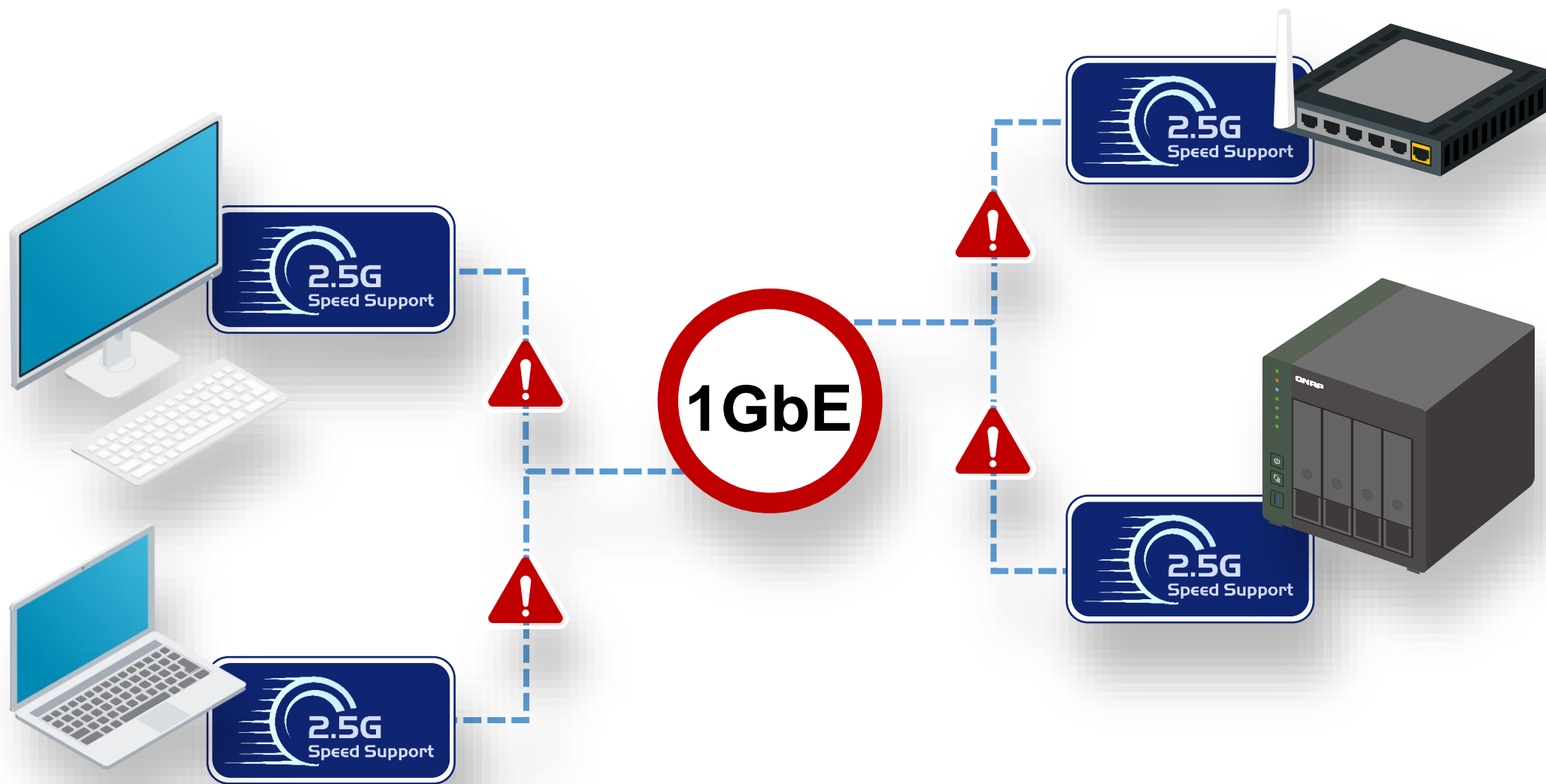


Apple MacBook



Asrock Z490 Taichi

別讓交換器成為網路瓶頸



2.5GbE可以直接使用原本Cat5e的網路線

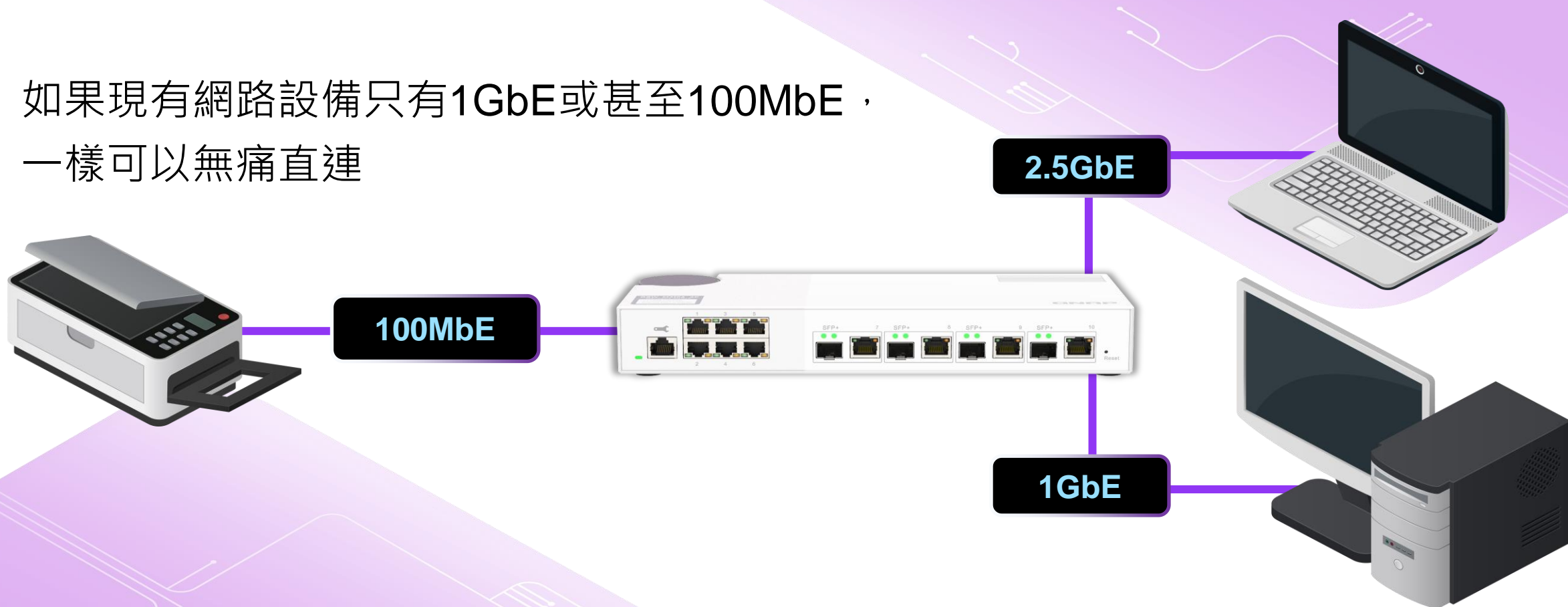
- 省去重新拉線佈線的麻煩

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



自由搭配現有網速的設備

如果現有網路設備只有1GbE或甚至100MbE，
一樣可以無痛直連



QSW-M2106系列 硬體規格



QSW-M2106-4S



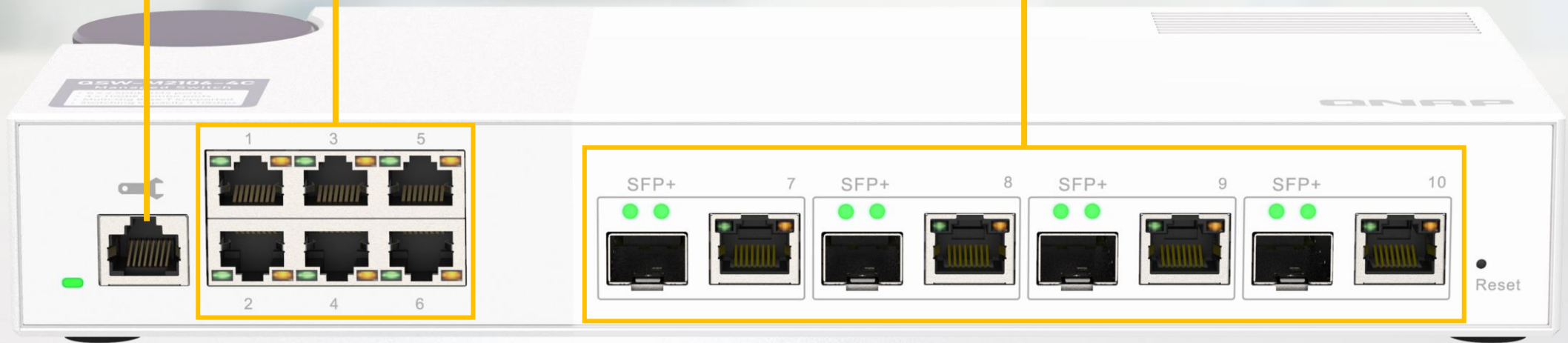
QSW-M2106-4C

	QSW-M2106-4S	QSW-M2106-4C
Management	Layer2 Web Managed switch	Layer2 Web Managed switch
Number of Port	10	10
2.5 GbE RJ45 (Support 2.5GbE/1GbE/100M)	6	6
10 GbE SFP+ (Support 10GbE/1GbE)	4	-
10 GbE SFP+/RJ45 combo	-	4
Switch bandwidth	110Gbps	110Gbps
Packet buffer size	12Mbit	12Mbit
Jumbo Frame	9Kbytes	9Kbytes
MAC table	16K	16K
Fan design	With fan	With fan
Form factor	Desktop	Desktop

QSW-M2106-4C 硬體介面

6 x 2.5GbE RJ45 ports
Console port

4 x 10GbE SFP+ /RJ45 combo ports

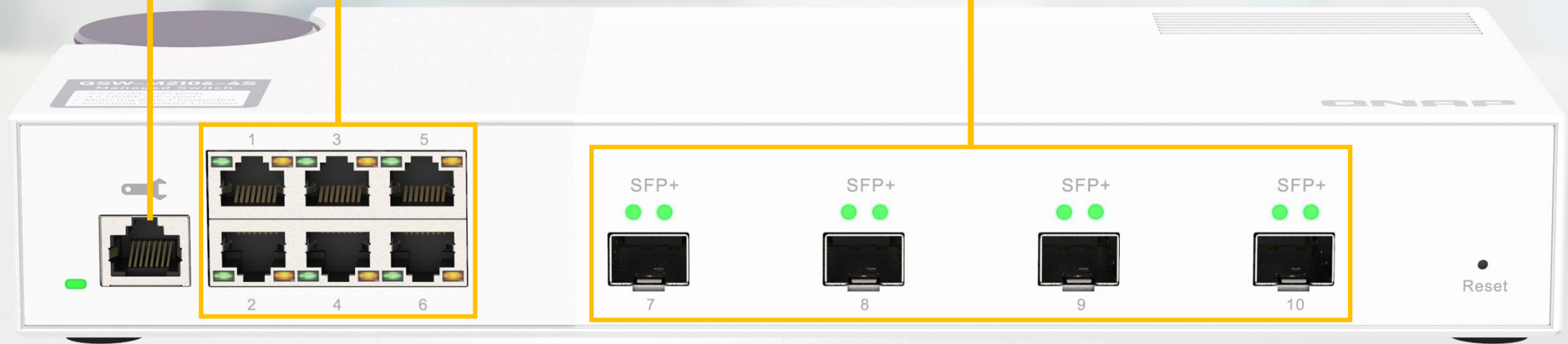


QSW-M2106-4S 硬體介面

6 x 2.5GbE RJ45 ports

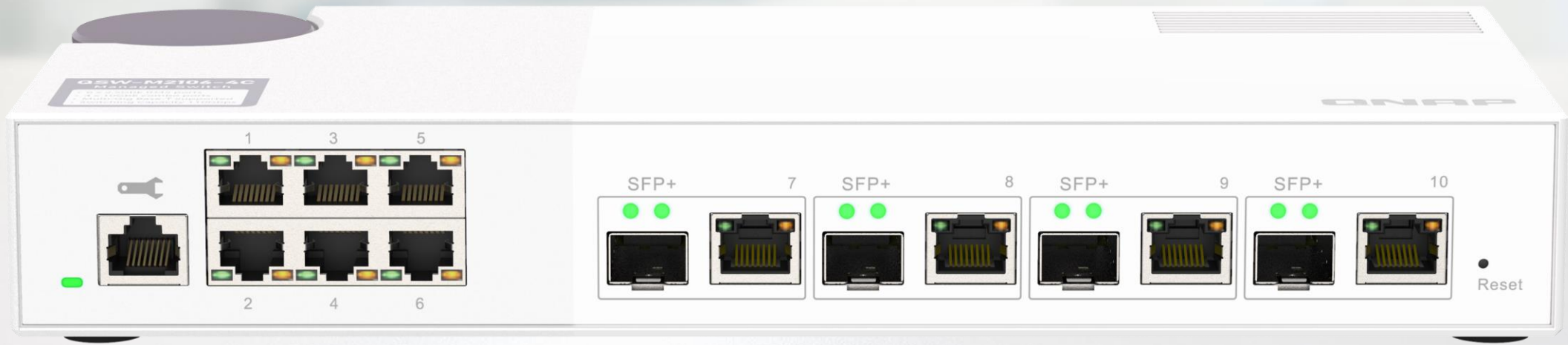
Console port

4 x 10GbE SFP+ ports



硬體優勢與價值：洗鍊設計與配色

- 以兩種表面處理凸顯純白機身的層次感、巧妙分野 2.5GbE 與 10GbE 介面。
- 搭配紫灰色造型電源接頭，不只為辦公空間帶來 2.5/10GbE 靈活搭配也帶來體現功能與美感的設計！



Note: QSW-M2108-2S/2C only

QNAP

QSW-M2106軟體介紹



QSW-M2106-4S



QSW-M2106-4C

簡單明瞭的介面設計

- 簡潔、圖像化
- 設定引導

The image displays three overlapping screenshots of the QSS Management web interface, illustrating its clean and user-friendly design. The interface features a dark blue sidebar with navigation icons for Overview, Configuration, Port Management, VLAN, Link Aggregation, RSTP, LLDP, IGMP Snooping, ACL, and QoS. The main content area is light gray and contains various sections and tables.

Overview Screenshot: Shows system information (Model Name: QSW-M408-4C, IP address: 172.17.22.63) and port status (5G, 1G). It includes a "Port Traffic" section with a graph showing current traffic at 0 Mbps.

Port Management Screenshot: Displays a "Dashboard" for port status. It includes a table for port configuration:

Port	State	Speed
10	On	Auto
11	On	Auto
12	On	Auto

VLAN Screenshot: Shows the "VLAN" configuration page with a "Dashboard" and a table for VLAN configuration:

VLAN ID	Port	1	2	3	4	5	6	7	8	9	10	11	12	Action
1		U	U	U	U	U	U	U	U	U	U	U	U	

The interface also includes a "VLAN" configuration guide with the following steps:

- Step 1. Click "Add VLAN" to start a VLAN configuration.
- Step 2. Set "VLAN ID" from number 2-4000, the ID number must NOT be repeated.
- Step 3. Choose the port member(s) of the VLAN.
- Step 4. Mark which port members are tagged if necessary.
- Step 5. Click "Save" to complete the configuration.
- Step 6. You may click "Edit" to edit the configuration or "Delete" to delete it.

明確分割工作室內各別網路

- 虛擬區域網路 (VLAN) 可以明確獨立出不同的部門網路
- 方便管理, 不同網路間可有條件相連
- 也可分隔員工及來賓網路



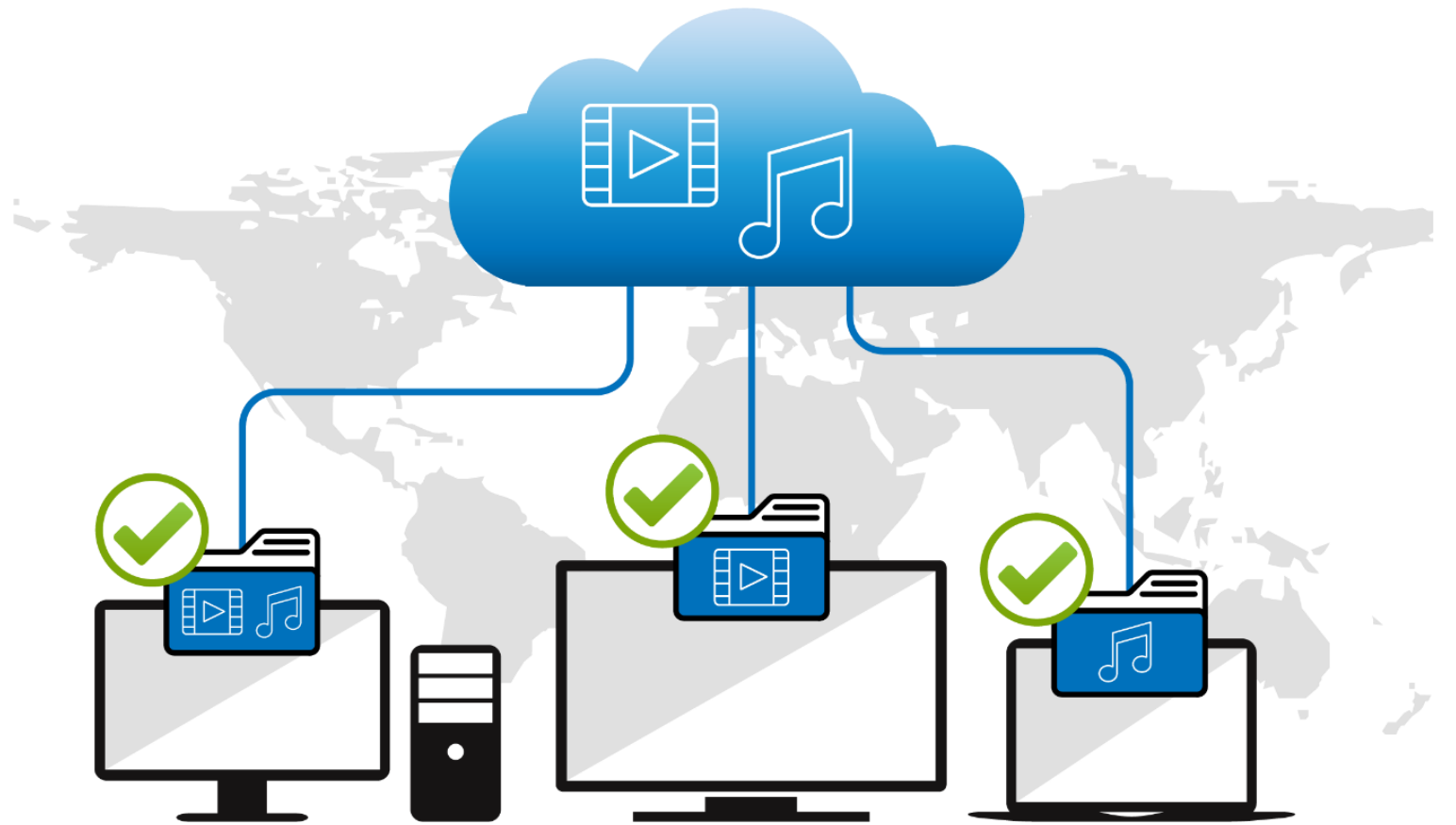
多接條網路線也可以提高網速

- 鏈路聚合 (LAG, Link Aggregation) 可以讓多條網路線的網速相加，變成更大的網路頻寬
- 快速又直接的讓網速更上一層樓



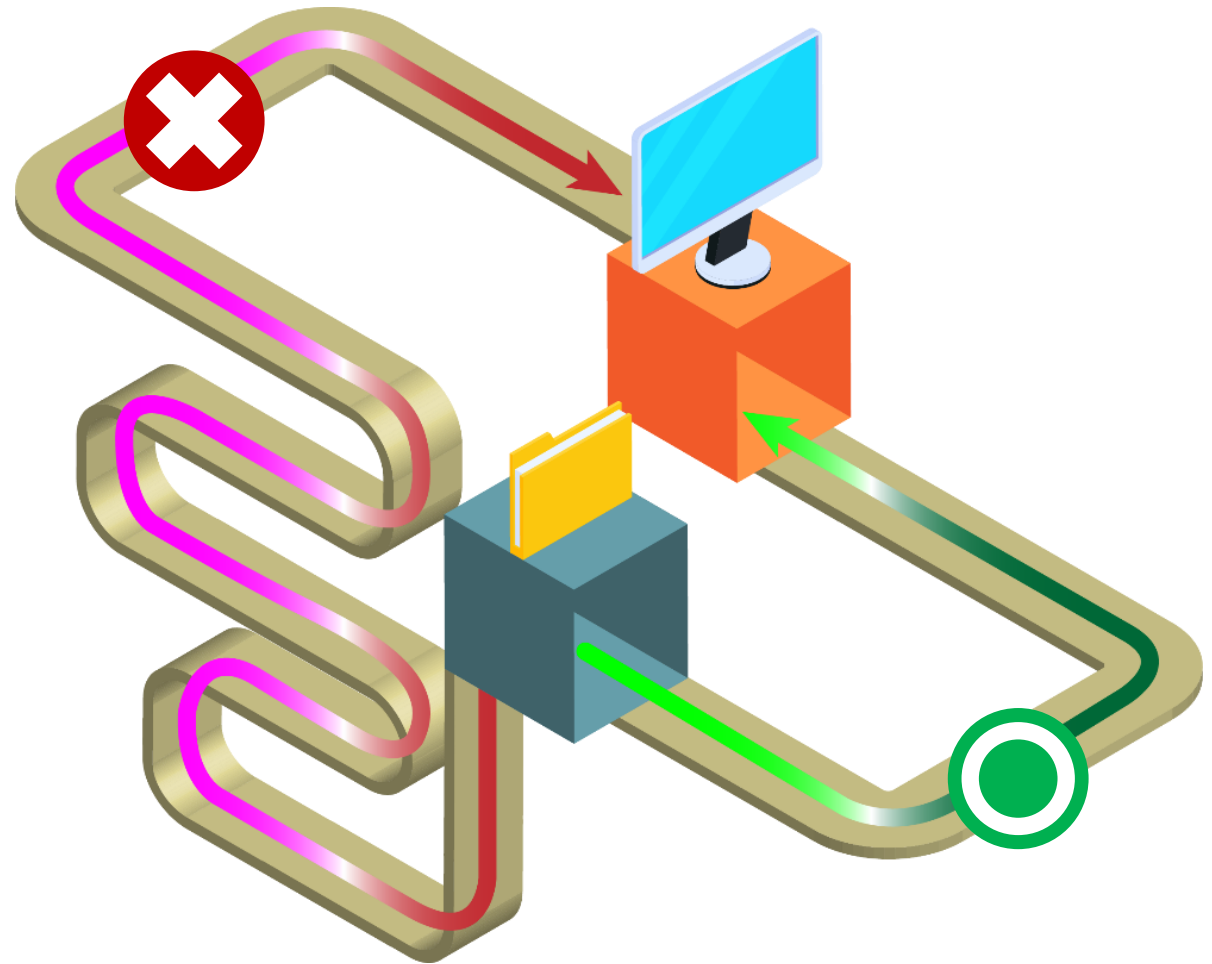
準確記錄及配發影音串流給設備

- 群組監聽協定 (IGMP snooping) 可以準確記錄所有影音串流分配方式
- 不會因為誤傳或少傳封包導致影音中斷或品質不佳



隨時優化網路傳輸路徑

- 透過生成樹協定 (RSTP, Rapid Spanning Tree Protocol) 隨時監控及優化網路傳輸路徑
- 網路架構再複雜, 檔案永遠用最快的路徑來傳輸



軟體版本檢查



- 一鍵自動更新
- 交換機自動偵測有無新軟體
- 手動更新

當然 QSW-M2106 還有很多功能

透過流量控制 (IEEE 802.3x)
監看網路擁塞情況, 避免掉包



週邊設備偵測 (LLDP), 讓
管理者一目了然那些設備
連接到交換機



節能設計 (IEEE 802.3az) 及
風扇轉速控制, 減少不必要的
電能消耗



QNAP

QNAP 提供完整
10GbE/2.5GbE解決方案，
讓你網路不卡關



QSW-M2106-4S



QSW-M2106-4C

QNAP 2.5GbE 非網管型交換器

QSW-1108-8T



- 8x 2.5GbE RJ45
- Auto loop detected
- Desktop design
- Fan less design

QSW-2104-2T



- 4x 2.5GbE RJ45
- 2x 10GbE RJ45 (2T)
- Auto loop detected
- Desktop design
- Fan less design

QSW-1105-5T



- 5x 2.5GbE RJ45
- Auto loop detected
- Desktop design
- Fan less design

QSW-2104-2S



- 4x 2.5GbE RJ45
- 2x 10GbE SFP+ (2S)
- Auto loop detected
- Desktop design
- Fan less design

QNAP 2.5GbE 網管型交換器

QSW-M2106-4C

NEW



- 6x 2.5GbE RJ45
- 4x 10GbE SFP+/RJ45 combo
- Layer 2 Management
- Desktop design

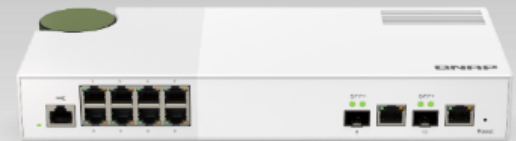
QSW-M2106-4S

NEW



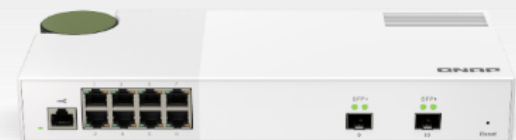
- 6x 2.5GbE RJ45
- 4x 10GbE SFP+
- Layer 2 Management
- Desktop design

QSW-M2108-2C



- 8x 2.5GbE RJ45
- 2x 10GbE SFP+/RJ45 combo
- Layer 2 Management
- Desktop design

QSW-M2108-2S



- 8x 2.5GbE RJ45
- 2x 10GbE SFP+
- Layer 2 Management
- Desktop design

QSW-M2106R-2S2T



Coming soon

- 6x 2.5GbE RJ45
- 2x 10GbE RJ45
- 2x 10GbE SFP+
- Layer 2 Management
- Rack mount and 2 for 1 design

QSW-M2116P-2T2S



- 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

QSW-M2108R-2C



- 8x 2.5GbE RJ45
- 2x 10GbE SFP+/RJ45 combo
- Layer 2 Management
- Rack mount and 2 for 1 design

如果預算足夠，您也可以選擇全10GbE交換器

Managed switches

QSW-IM1200-8C



- 3 x powers with redundant design
- 4 x10GbE SFP+
- 8 x10GbE SFP+/RJ45 combo
- Layer 2 management
- Rackmount
- Fan less

QSW-M1204-4C



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

QSW-M804-4C



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

QSW-M1208-8C



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

Unmanaged switches

QSW-1208-8C



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

搭配內建2.5GbE桌上型NAS

TS-x73A



TS-873A

TS-673A

TS-473A

TS-hx886



TS-h886

TS-h686

TS-675



TVS-675

TS-x53D



TS-653D

TS-453D

TS-253D

TS-x31P3



TS-431P

TS-231P3

TS-364



TS-364

搭配內建10GbE桌上型NAS

With 10GbE BASE-T



TVS-h1688X / TVS-h1288X



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



TS-832PX



TS-431X3

10GbE + 2.5GbE

With 10GbE BASE-T



TVS-872X / TVS-672X

搭配機架型2.5/5/10GbE NAS

With 10GbE BASE-T & SFP+



TS-hx83XU-RP



TS-1886XU-RP R2

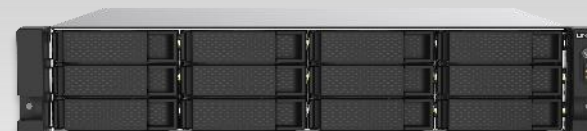


TS-hx77XU-RP

With 2.5GbE BASE-T



TS-873AeU



TS-x73AU



TS-X64U/X64eU series



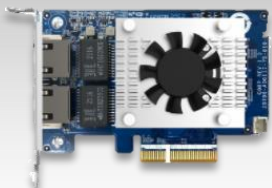
TS-x32PXU

+ 2 x 10GbE SFP+

網路擴充: 豐富的各式PCIe網路擴充卡

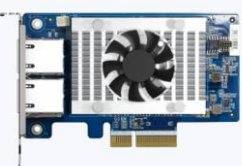
10GbE series

QXG-10G2TC



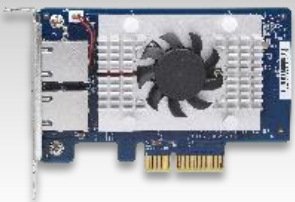
2 x RJ45

QXG-10G2T-X710



2 x RJ45

QXG-10G2T-X107



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



網路擴充：豐富的各式攜帶式網路擴充卡

QNA-UC5G1T



USB 3.2 Gen 1

- RJ45 NBASE-T
- 4速: 5G/2.5G/1G/100M

透過隨插即用的 USB 為你的筆記型電腦或 PC 升級成 5GbE 的高速網路

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

QNA-T310G1T



Thunderbolt 3

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

透過 Thunderbolt 3 快速將你的筆記型電腦或 PC 升級到 10GbE 的高速網路

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

QNAP

QSW-M2106 series

是您最好的選擇！



QSW-M2106-4S



QSW-M2106-4C