

QNAP

QSW-M2106R-2S2T

L2 網管型 10GbE/2.5GbE 交換器

網速升級，滿足多種連線需求

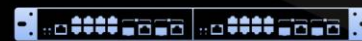


2.5GbE



10GbE

1



2 in 1U / 半機櫃式

2

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

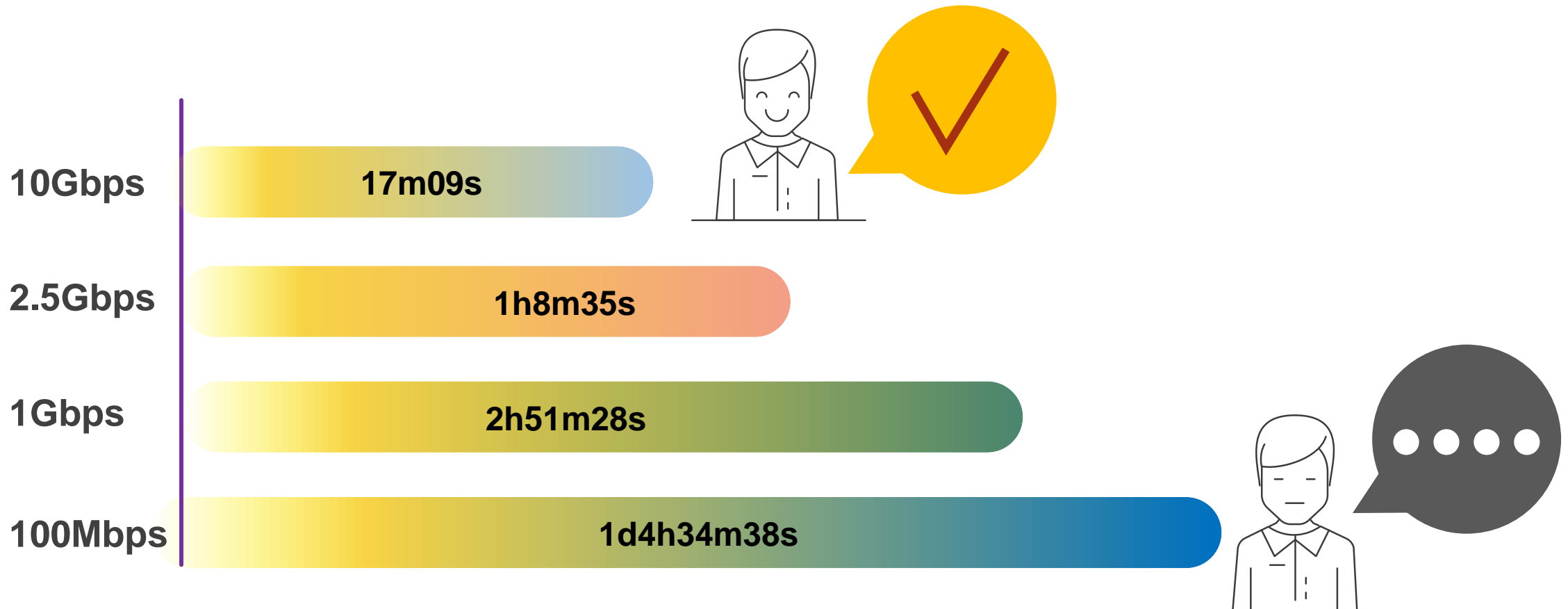


Netgear RBKE963B
WiFi 6E MESH system

想花多少時間等待？

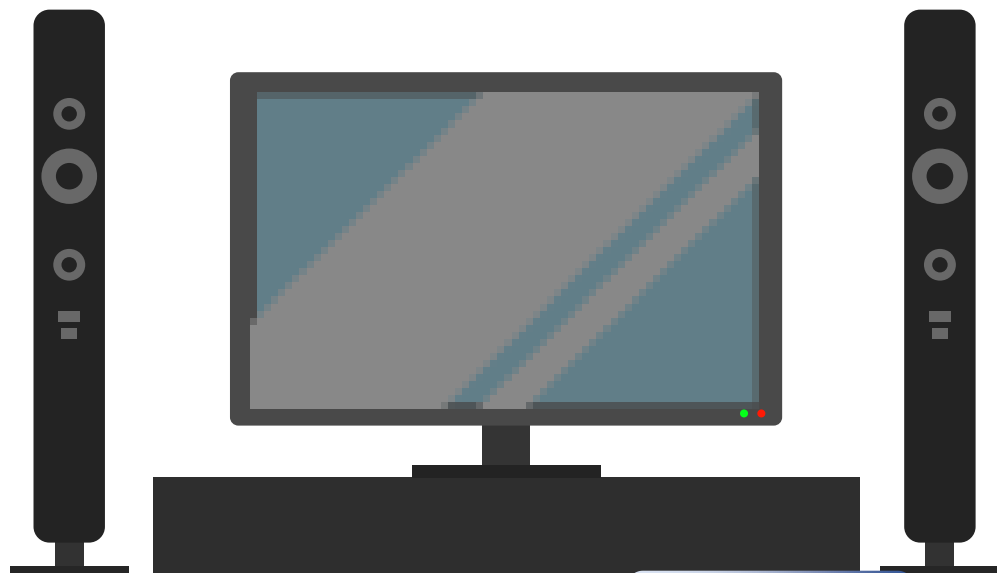
備份1 TB所需預估時間

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.....



Smart TV

1Gbps



PC

2.5Gbps



Notebook

1Gbps

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



TP-Link EAP670



Netgear AXE7800



TP-Link Archer AX6000



TP-Link Archer GX90



Gigabyte Z490 AORUS MASTER



Apple MacBook



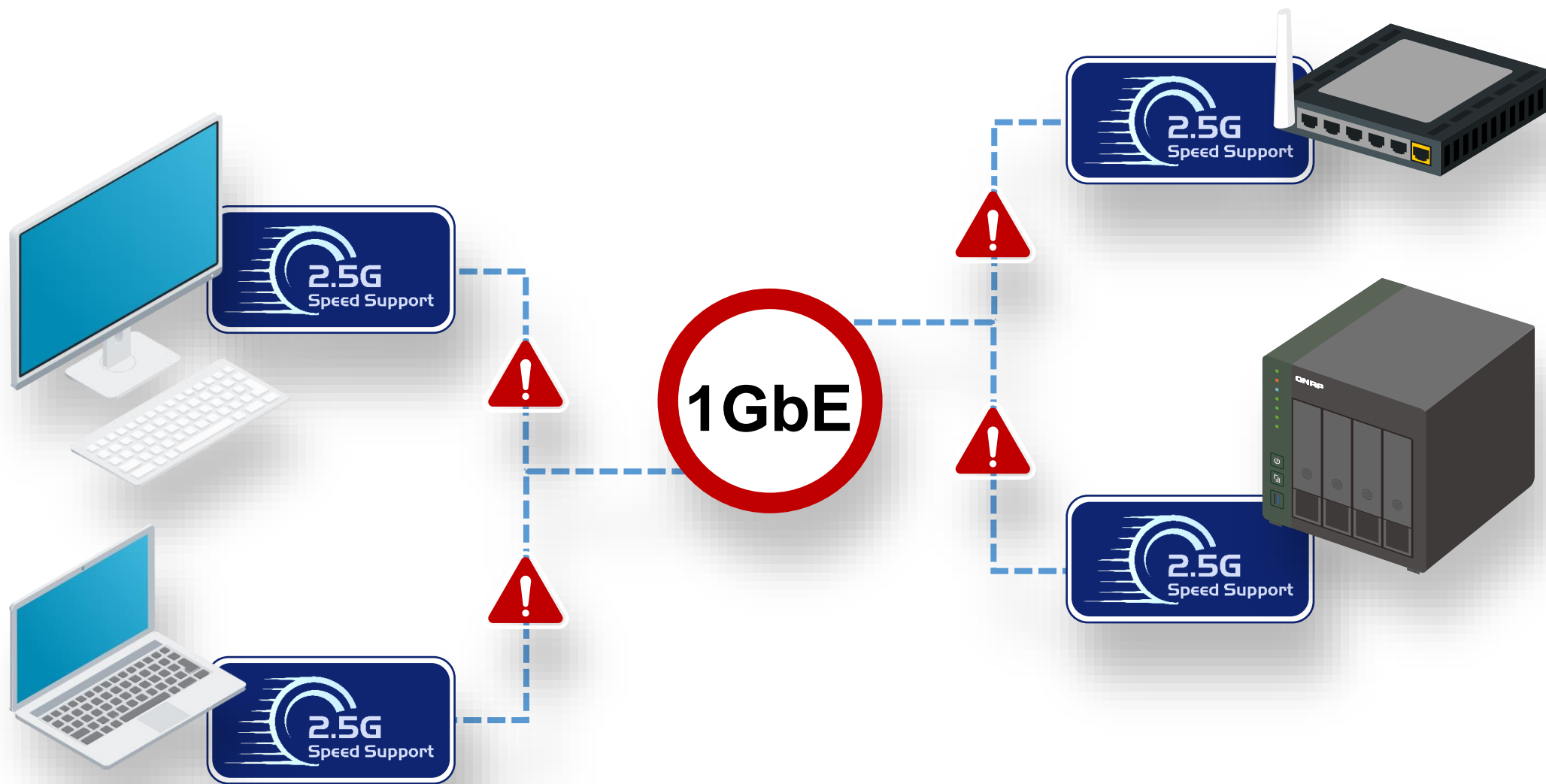
Asrock Z490 Taichi



QNAP TS-431P3

QNAP TS-231P3

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

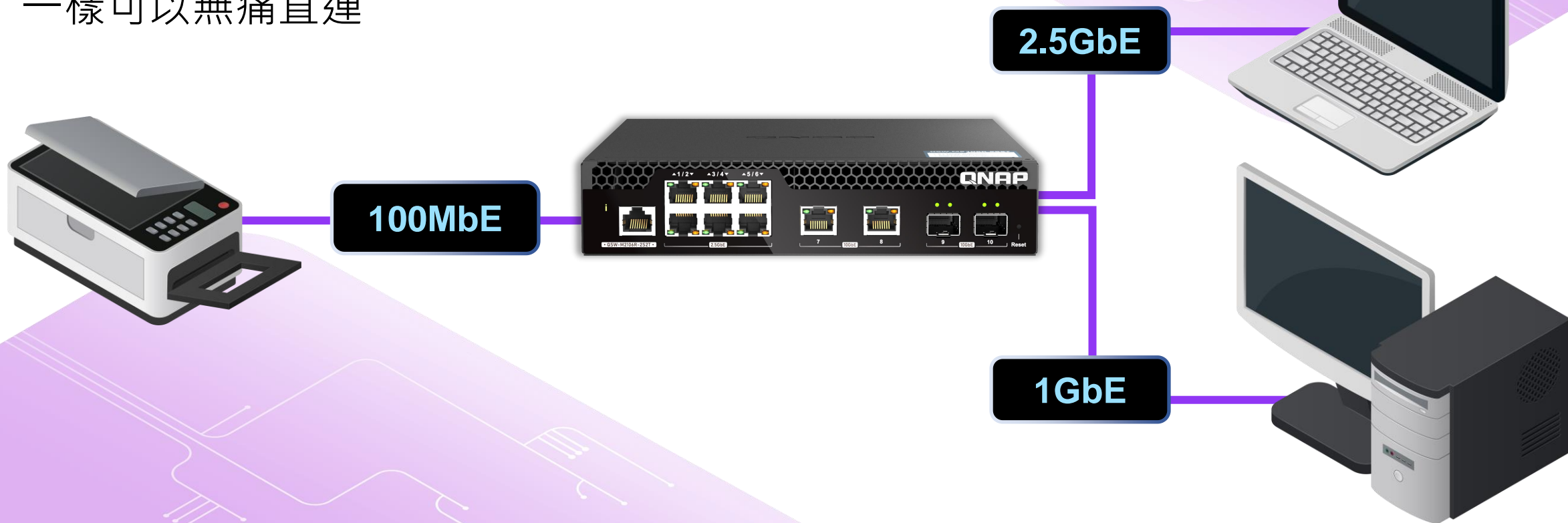
- 省去重新拉線佈線的麻煩

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

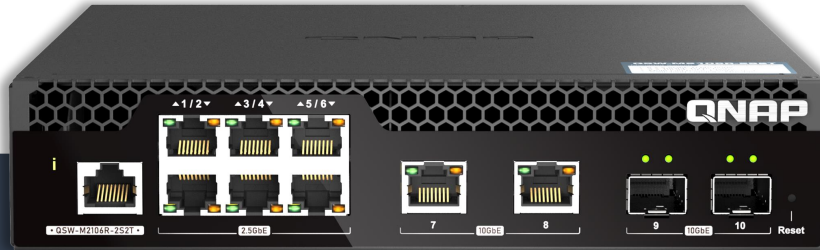


自由搭配現有網速的設備

如果現有網路設備只有1GbE或甚至100MbE，
一樣可以無痛直連



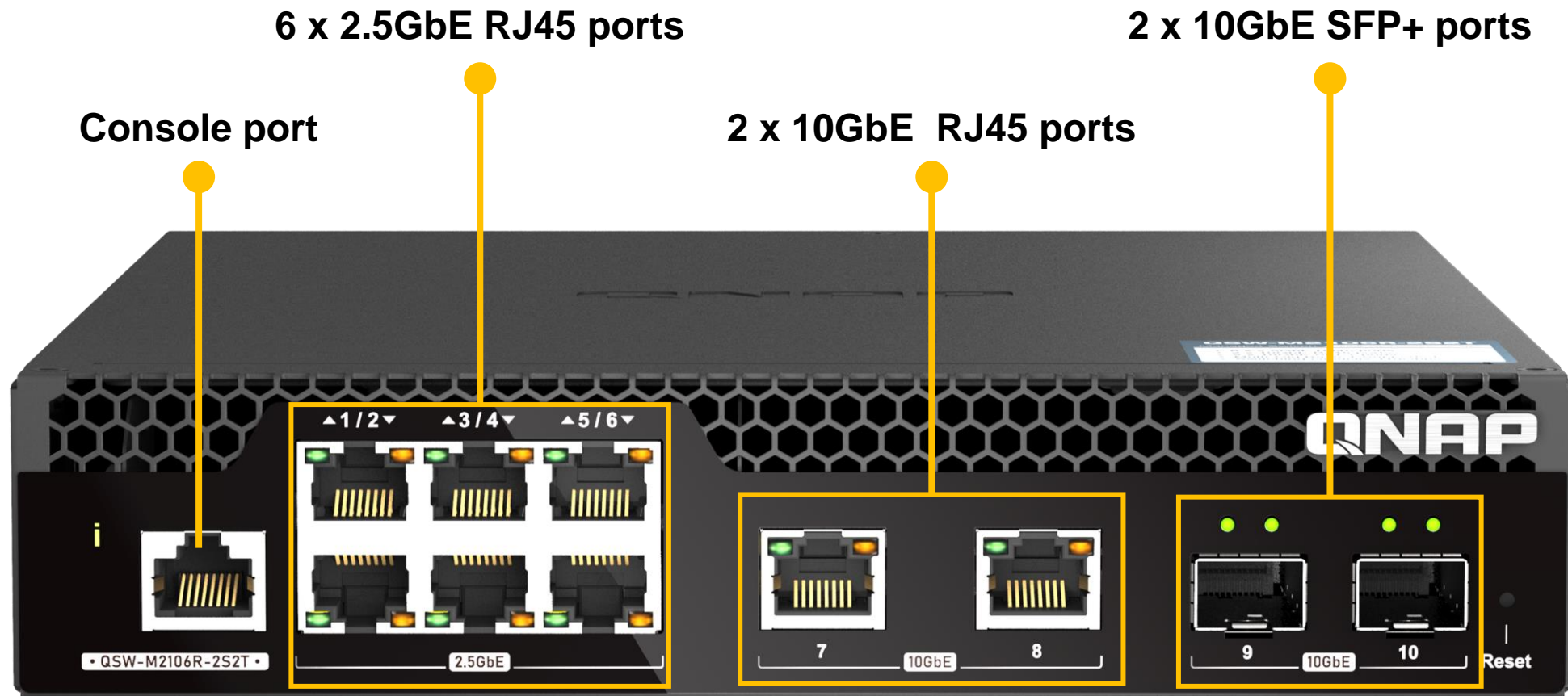
QSW-M2106R-2S2T 規格



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 網路埠配置介紹



半機櫃設計-更彈性地空間利用



單台 QSW-M2106R-2S2T 裝
在 1U 機櫃

混搭 QSW-M2106R-2S2T 與 QSW-M2108R-2C 在 1U 機櫃



Note1: QSW-M2106R-2S2T only

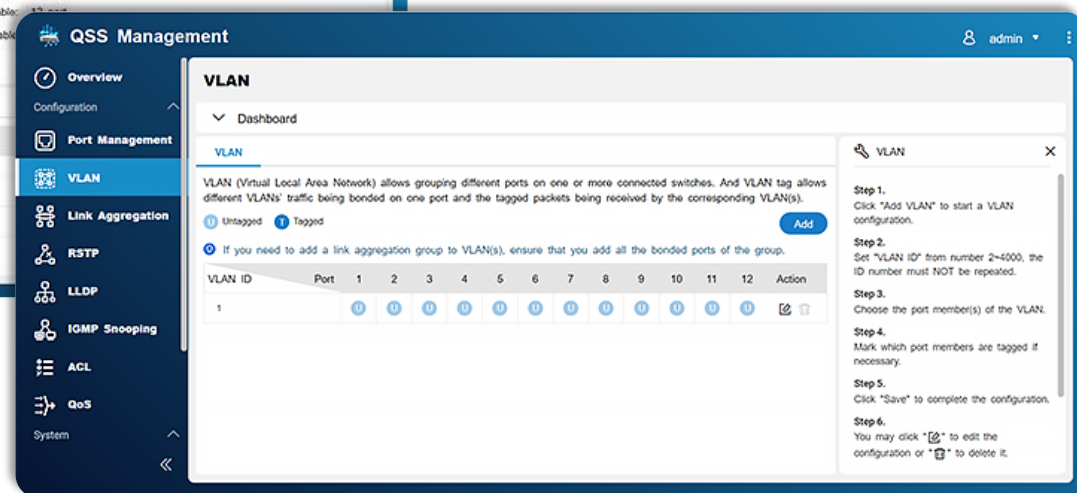
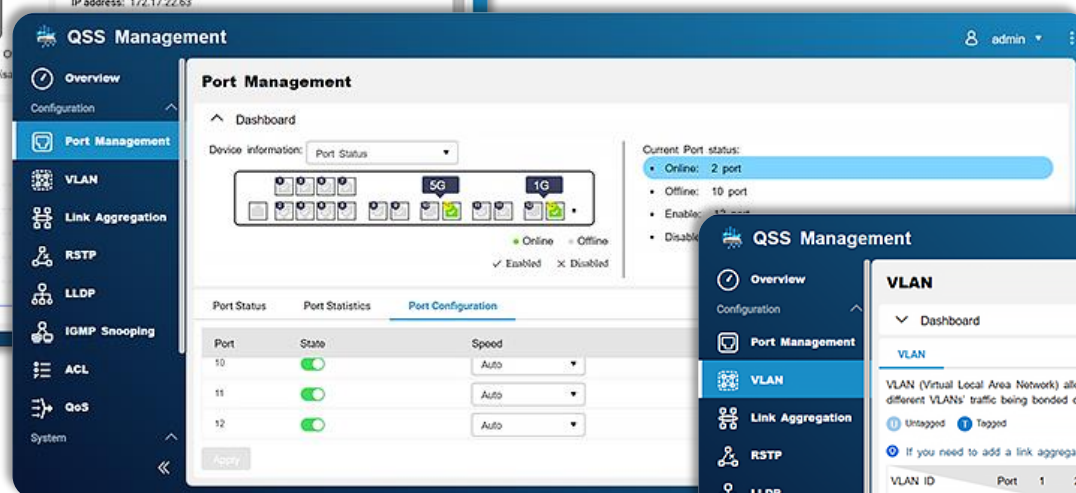
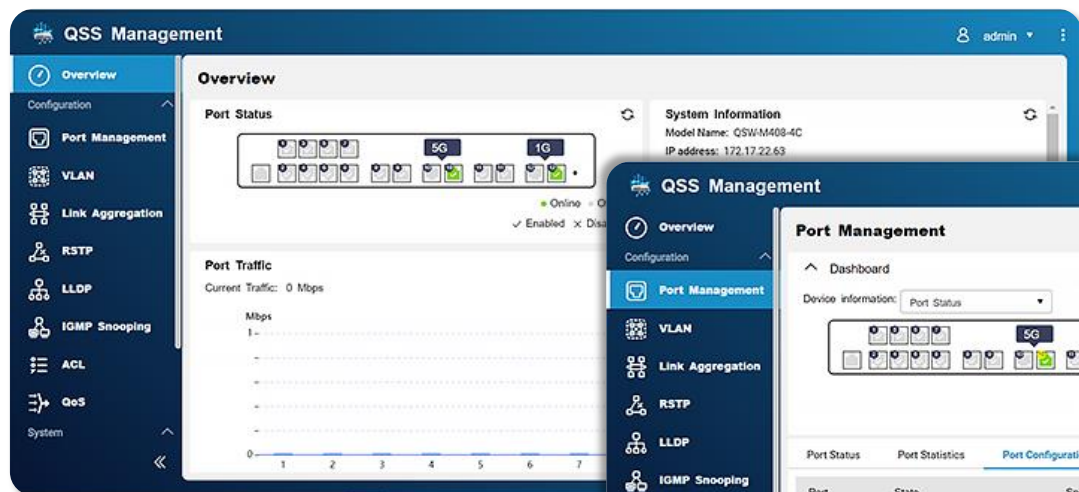
Note2: Requires separate 2-in-1U rackmount kit. Please visit <https://shop.qnap.com>.

QSW-M2106R-2S2T 軟體介紹



簡單明瞭的介面設計

- 簡潔、圖像化
- 設定引導



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



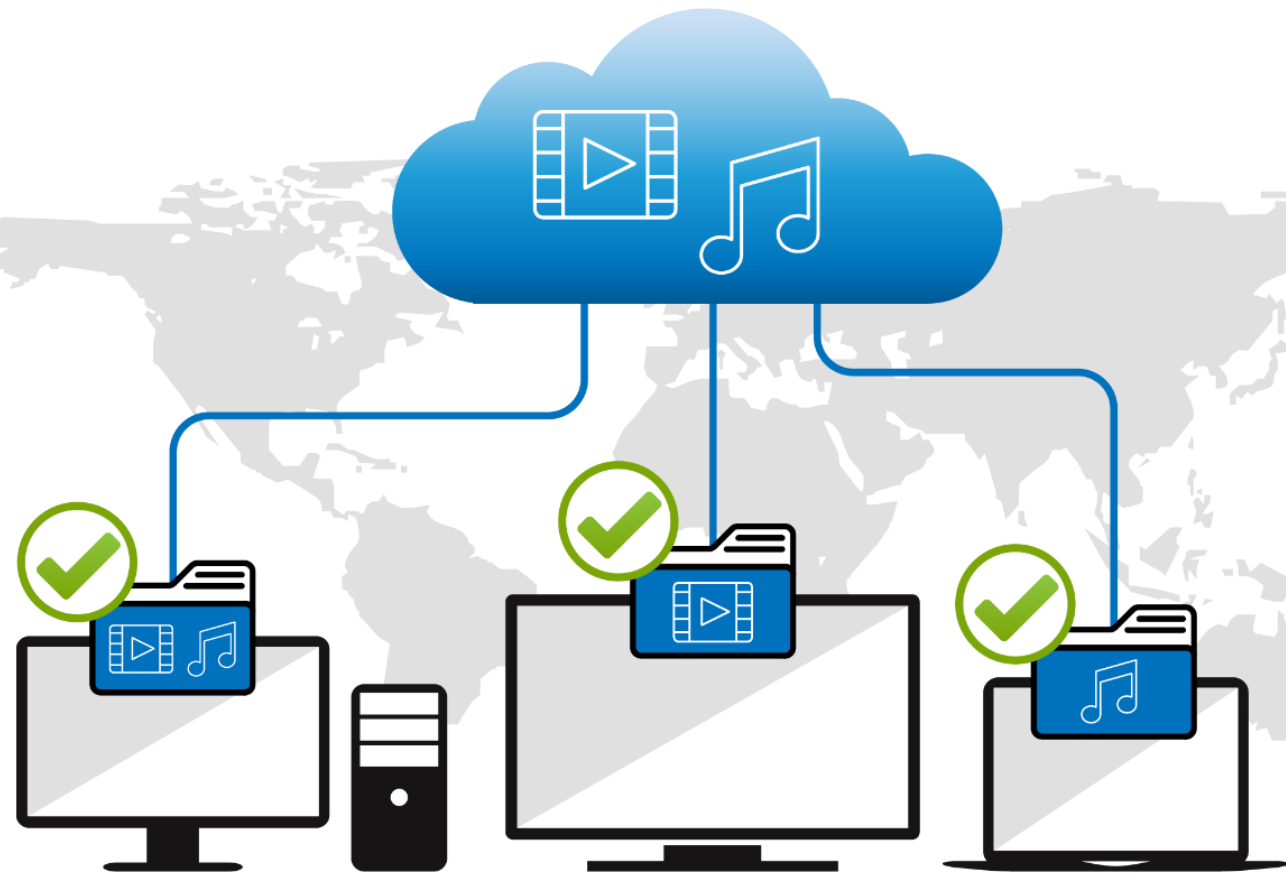
多接條網路線也可以提高網速

- 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



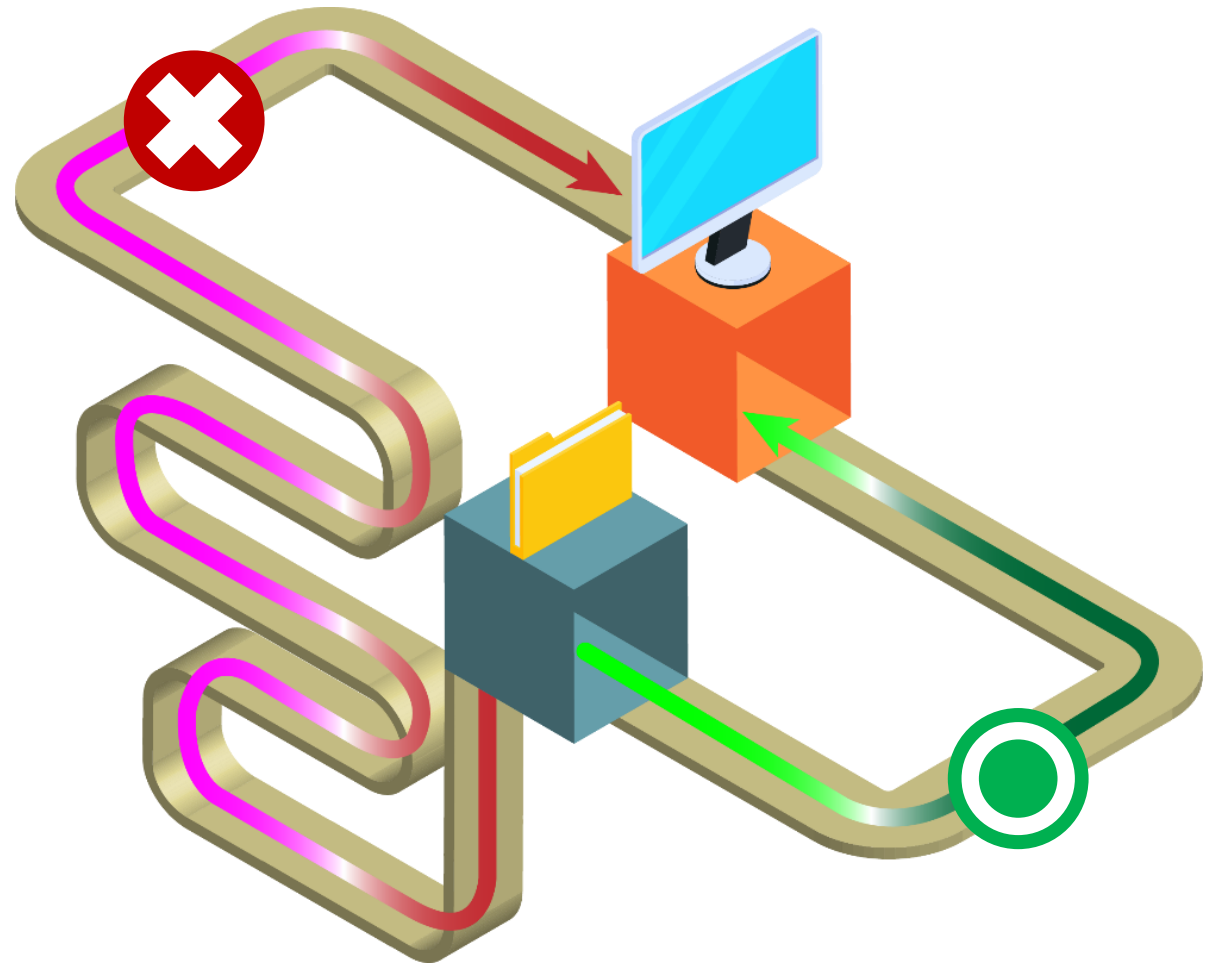
準確記錄及配發影音串流給設備

- 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 提供完整
10GbE/2.5GbE解決方案，
讓你網路不卡關



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



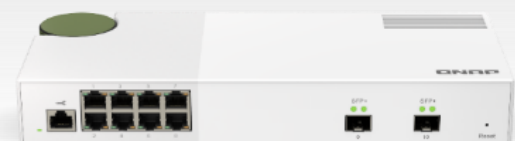
- 6x 2.5GbE RJ45
- 4x 10GbE SFP+
- Layer 2 Management
- Desktop design

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

NEW



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

QSW-M2106PR-2S2T

COMING SOON



- 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-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

SMB



TS-873A

TS-673A

TS-473A

Enterprise



TS-h886

TS-h686

SMB



TVS-675

SMB



TBS-464

TS-453E

TS-253E

Home/SOHO



TS-364

TS-462

TS-262

TS-433

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



TS-i410X

搭配機架型2.5/5/10GbE NAS

With 10GbE BASE-T or SFP+



TS-1886XU-RP R2



TS-hx83XU-RP



TS-hx87XU-RP



TS-hx77XU-RP



TS-435XeU



TS-873AeU/873AeU-RP/1273AU-RP/1673AU-RP



TS-X64U/X64eU series



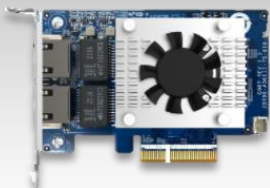
TS-x32PXU

+ 2 x 10GbE SFP+

網路擴充: 豐富的各式PCIe網路擴充卡

10GbE series

QXG-10G2TB



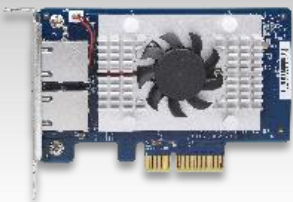
2 x RJ45

QXG-10G2T-X710



2 x RJ45

QXG-10G2T-X107



2 x RJ45

QXG-10G1TB



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



2.5GbE



10GbE



2 in 1U / 半機櫃式

QSW-M2106R-2S2T

是您最好的選擇！

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