

QNAP

QSW-2104 Series

2.5GbE/10GbE
無網管交換器



QSW-2104-2S



QSW-2104-2T

隨插即用全面升速，為家庭或工作室打造高速穩定的網路環境

家中跟公司網路設備 網速需求越來越高



QSW-2104-2S



QSW-2104-2T

資料容量大就需要更快的網路傳輸速度

- 沒有高速的網路速度，資料容量越大反而會讓網路效能變差

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.

2.5GbE是可以直接使用原本Cat5e的網路線

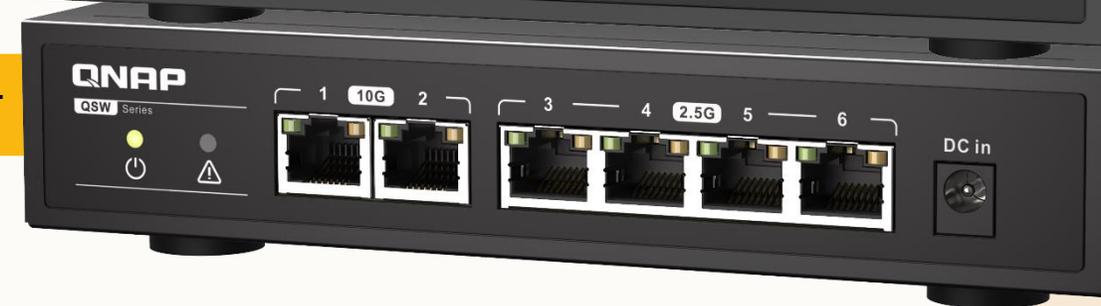
- 省去重新拉線佈線的麻煩

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

QSW-1105-5T



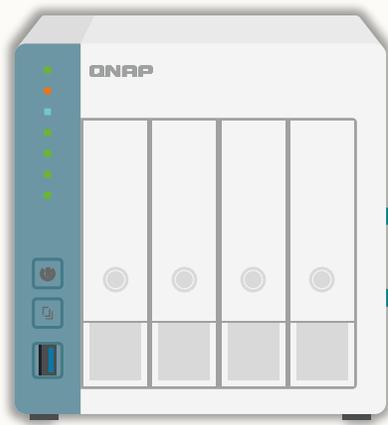
QSW-2104-2T



QSW-2104-2S



更快不會更貴，為什麼不升級到2.5GbE?

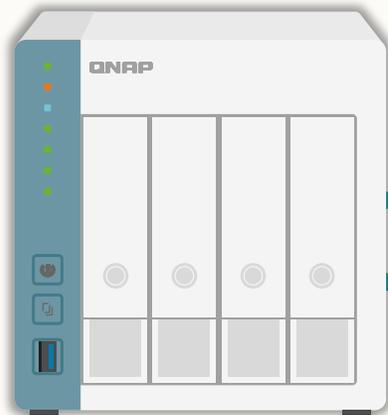


8K Full HD video

1GbE



Slow.....



8K Full HD video

2.5GbE



YA! that's what I talking about.



現在QNAP既有的2.5GbE交換機

Managed

QSW-M2108 Series



QSW-M2108-2S

QSW-M2108-2C

QSW-M2108R-2C



QSW-2104 Series



QSW-2104-2S

QSW-2104-2T

QSW-1105-5T

Unmanaged

2.5GbE+10GbE

Full 2.5GbE

在2.5GbE上增加 10GbE有什麼好處？



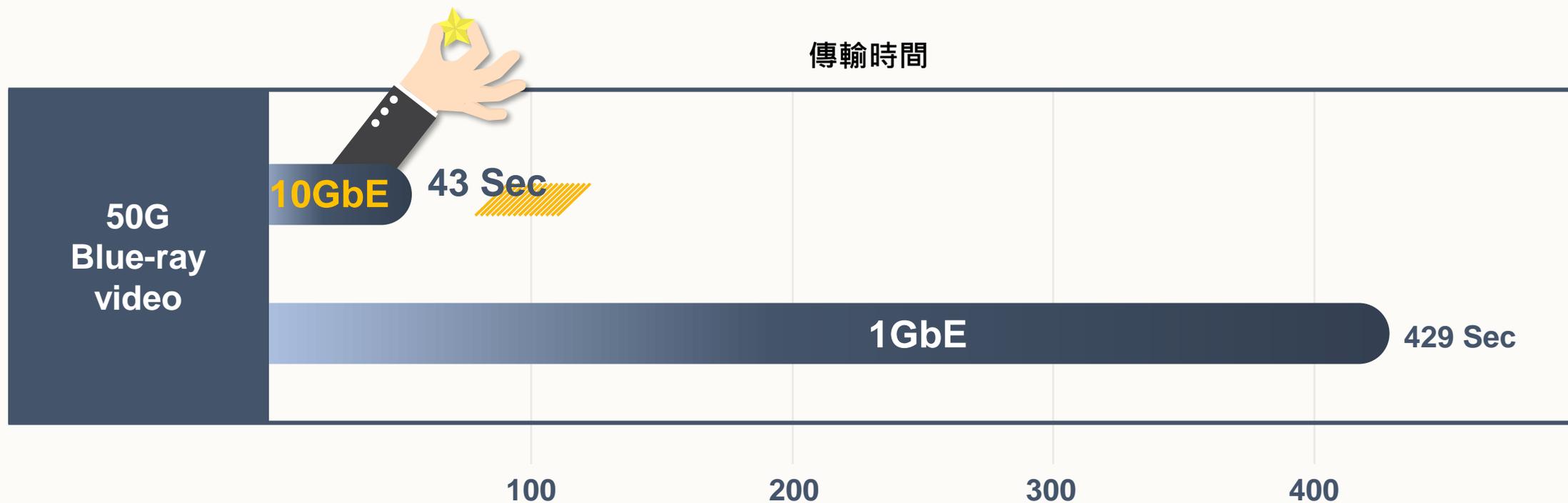
QSW-2104-2S



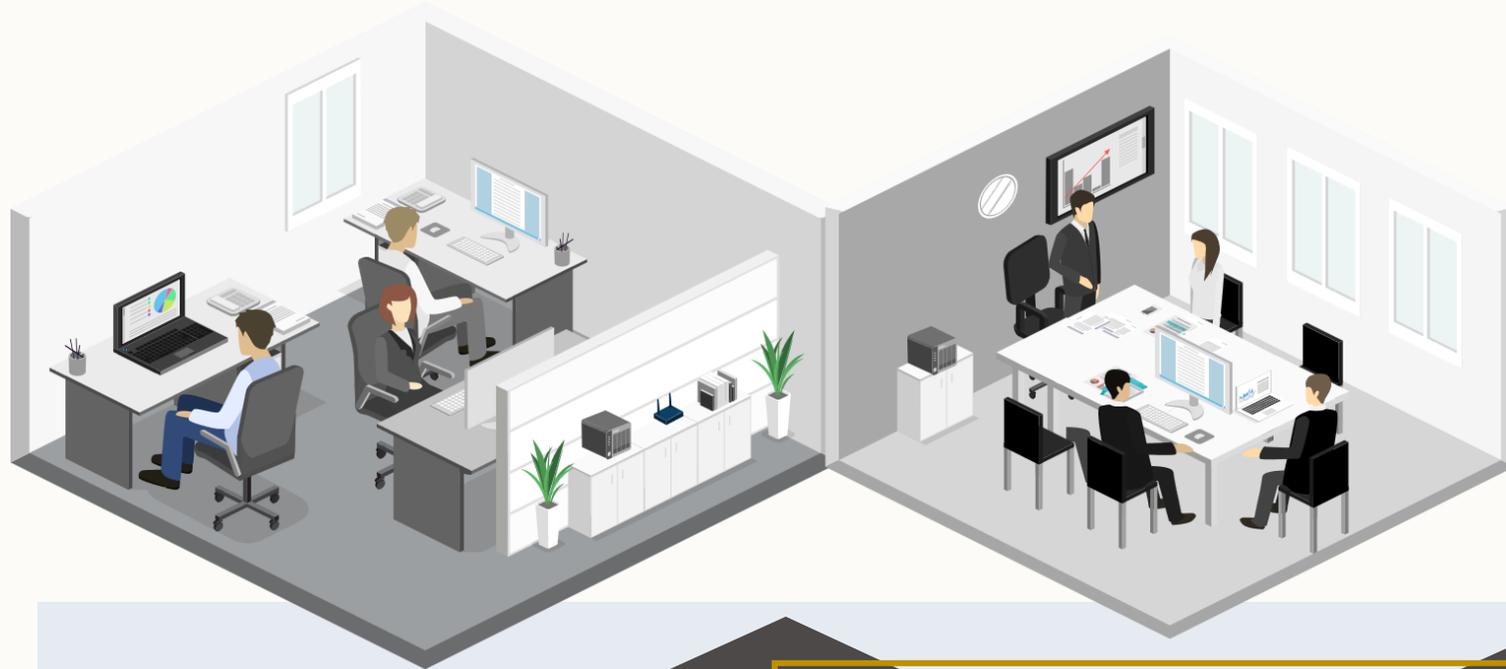
QSW-2104-2T

讓骨幹網路在串接的時候效率更好!!

10GbE傳輸更上層樓

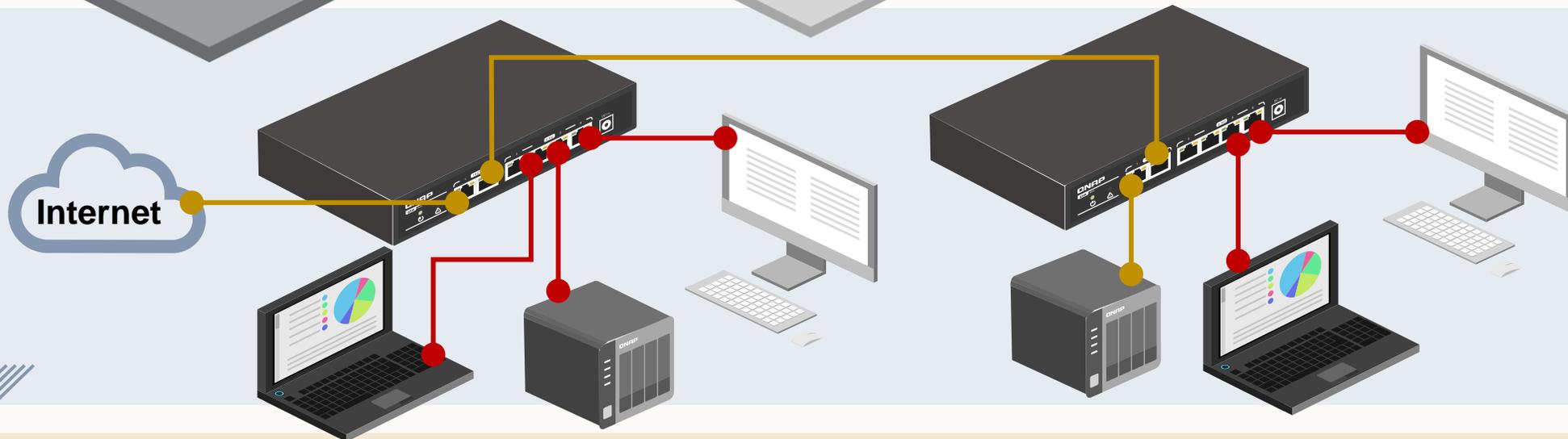


SOHO/SMB環境有高速10GbE骨幹需求



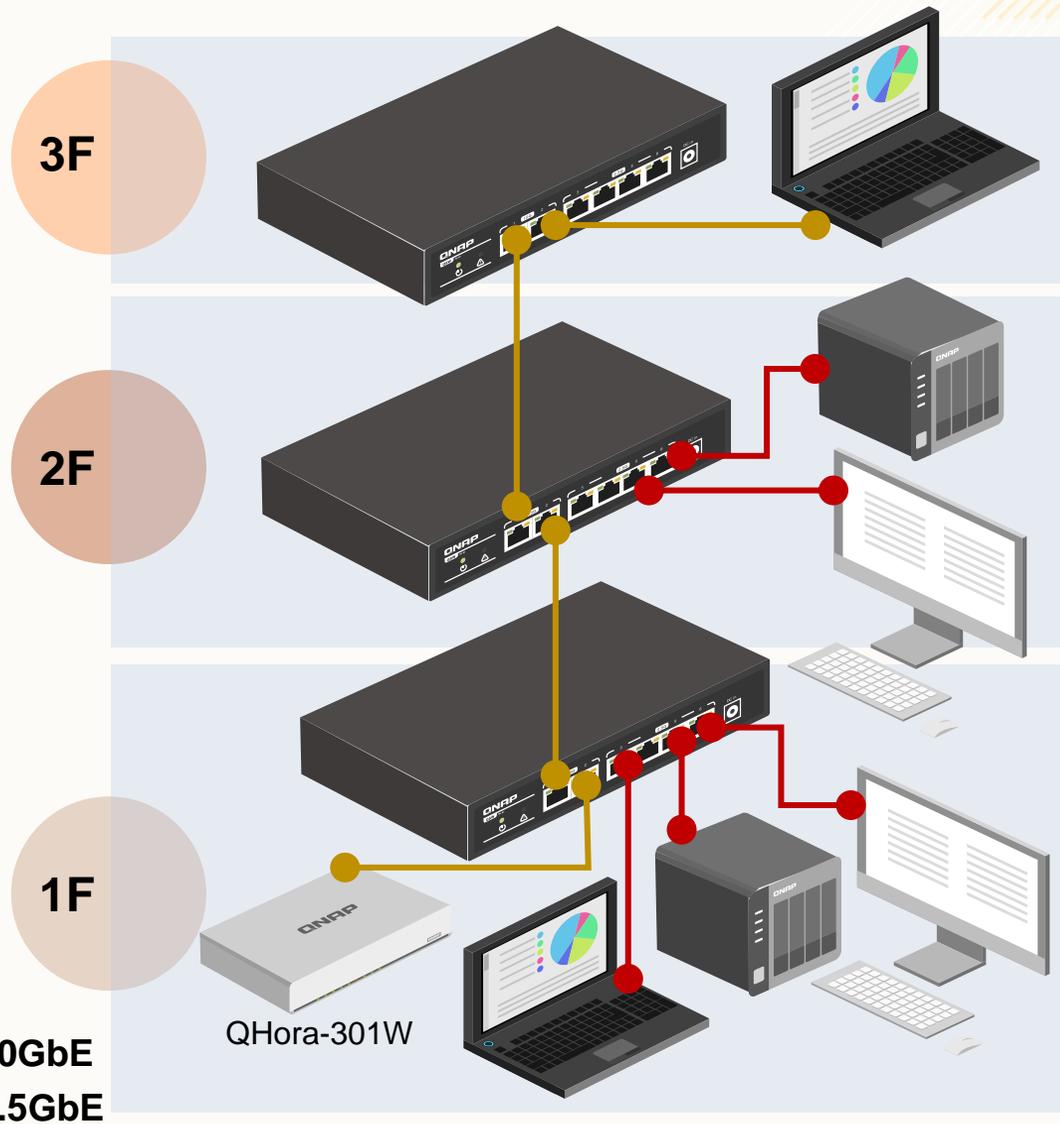
- 直接從1GbE升級到2.5GbE
- Uplink最高可使用到10GbE
- 跨辦公室最高可使用到10GbE
- 額外連接10GbE NAS也沒問題
- 隨插即用

●—● 10GbE
●—● 2.5GbE



家用環境可直接升級骨幹網速到10GbE

- 直接從1GbE升級到2.5GbE
- 可享受10GbE的NAS或PC
- 串聯多台QSW-2104增加設備連接
- 隨插即用
- 精巧機身可直接放置弱電箱



QNAP的無網管 2.5GbE方案要怎 麼選？



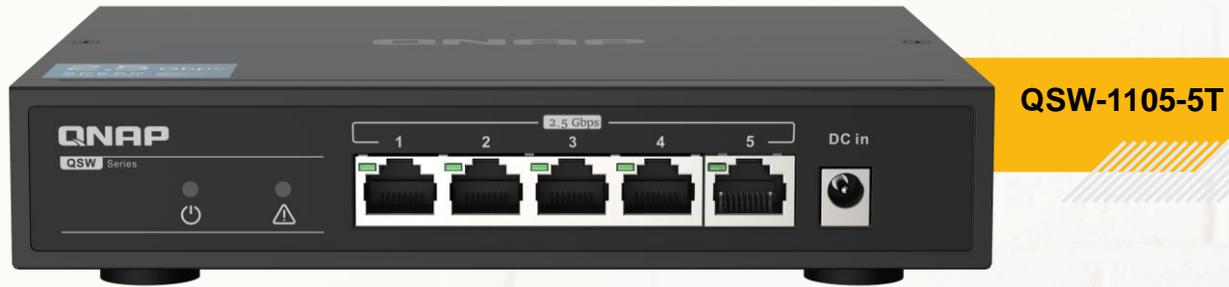
QSW-2104-2S



QSW-2104-2T

上網設備不多也無10GbE需求

- 可以選擇原本的QSW-1105-5T



有10GbE設備或有串接需求

- QSW-2104 Series就會是你最好的選擇
 - 1GbE-->2.5GbE and 10GbE
 - 10GbE介面還有RJ45跟SFP+兩種選擇
 - 無網管介面



QSW-2104-2S



QSW-2104-2T



QSW-2104系列為你帶來更簡單的升級方式

10GbE
2.5GbE

同時擁有2.5GbE還有10GbE



10GbE兩種介面自由選擇



隨插即用不需設定

也可以跟10GbE設備做搭配



QNAP 10GbE NAS



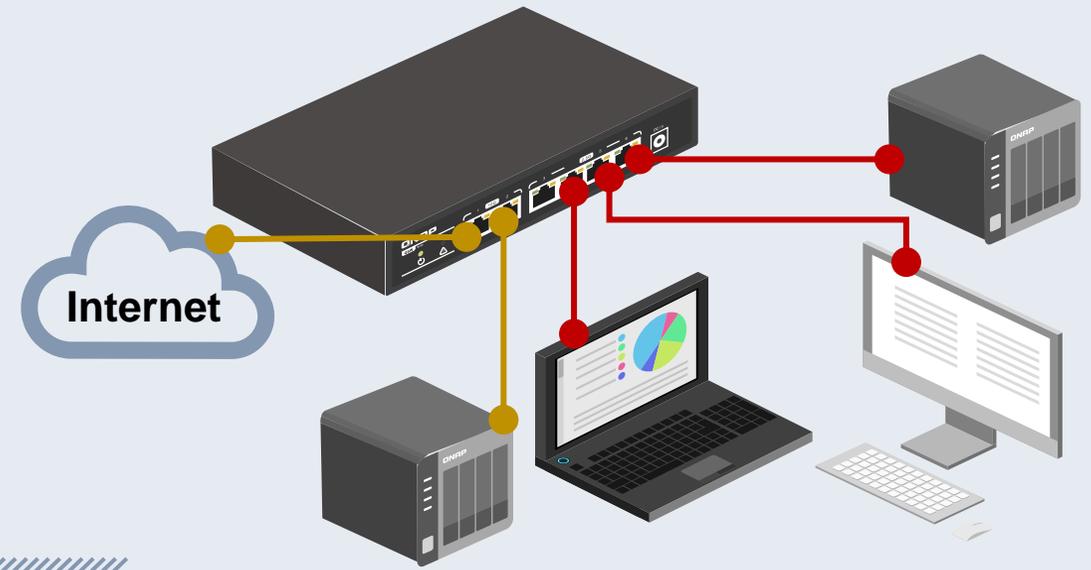
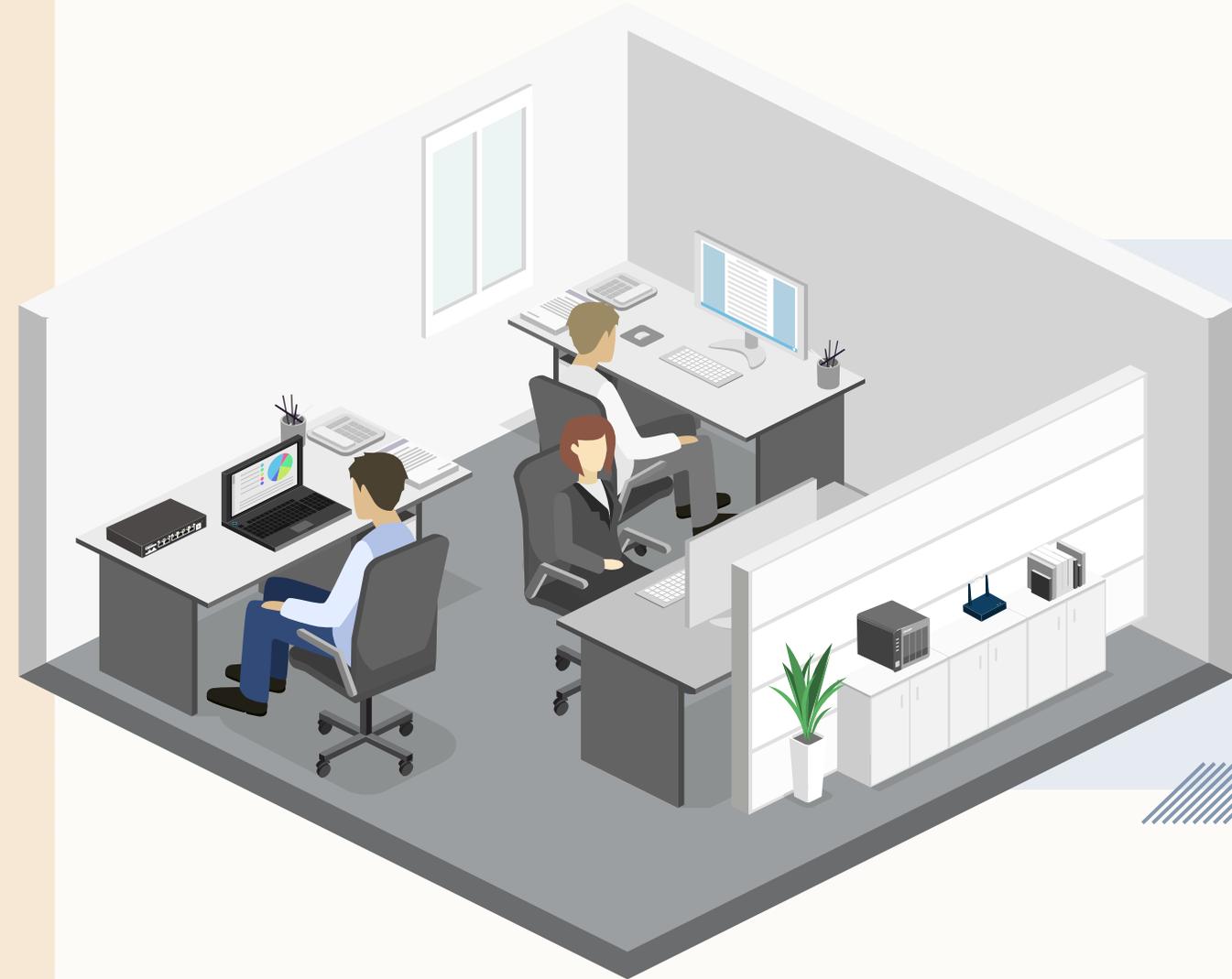
**QNAP 10GbE Router
QHora-301W**



QNAP 10GbE NIC

單台QSW-2104也可以用在SOHO/SMB環境

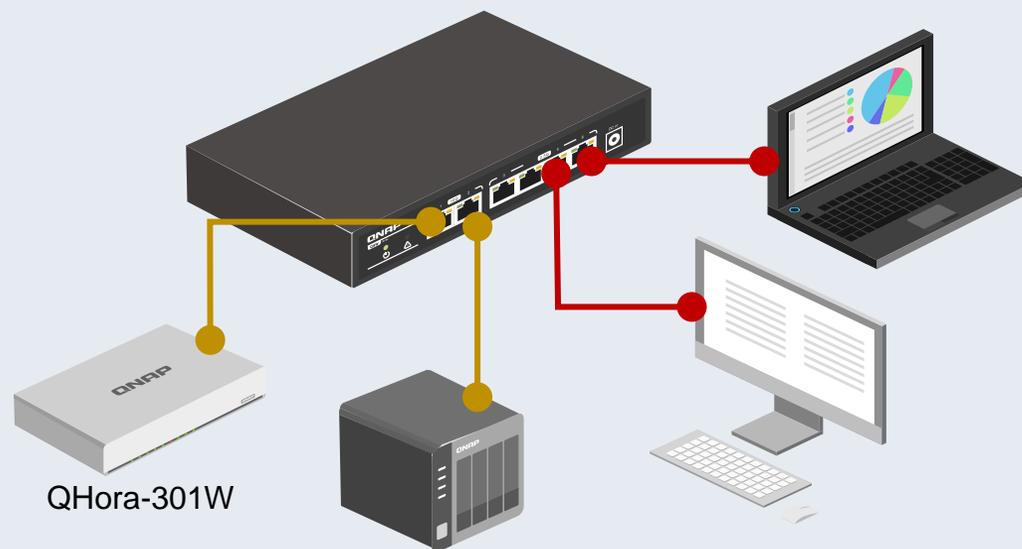
- 直接從1GbE升級到2.5GbE
- Uplink最高可使用到10GbE
- 額外連接10GbE NAS也沒問題
- 隨插即用



●—● 10GbE
●—● 2.5GbE

單台QSW-2104也可以用在家用環境

- 直接從1GbE升級到2.5GbE
- 可享受10GbE的NAS或PC
- 隨插即用
- 精巧機身可直接放置弱電箱



●—● 10GbE
●—● 2.5GbE

硬體規格亮點



QSW-2104-2S



QSW-2104-2T

硬體比較



	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

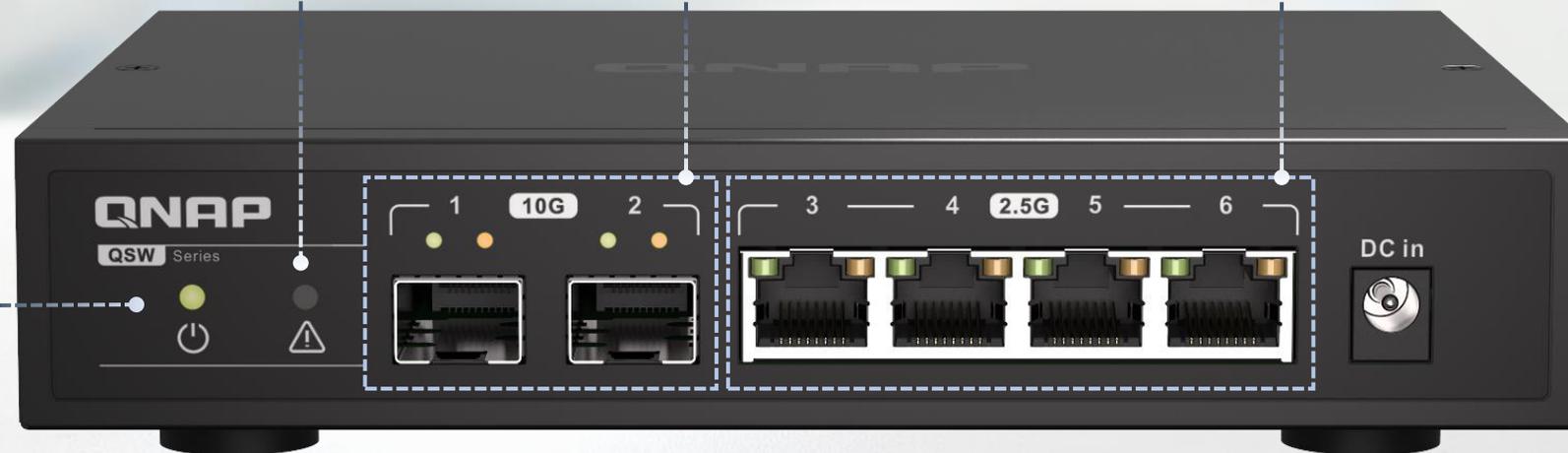
QSW-2104-2S 硬體介面

Status LED

Loop indicator

10GbE SFP+ ports

2.5GbE RJ45



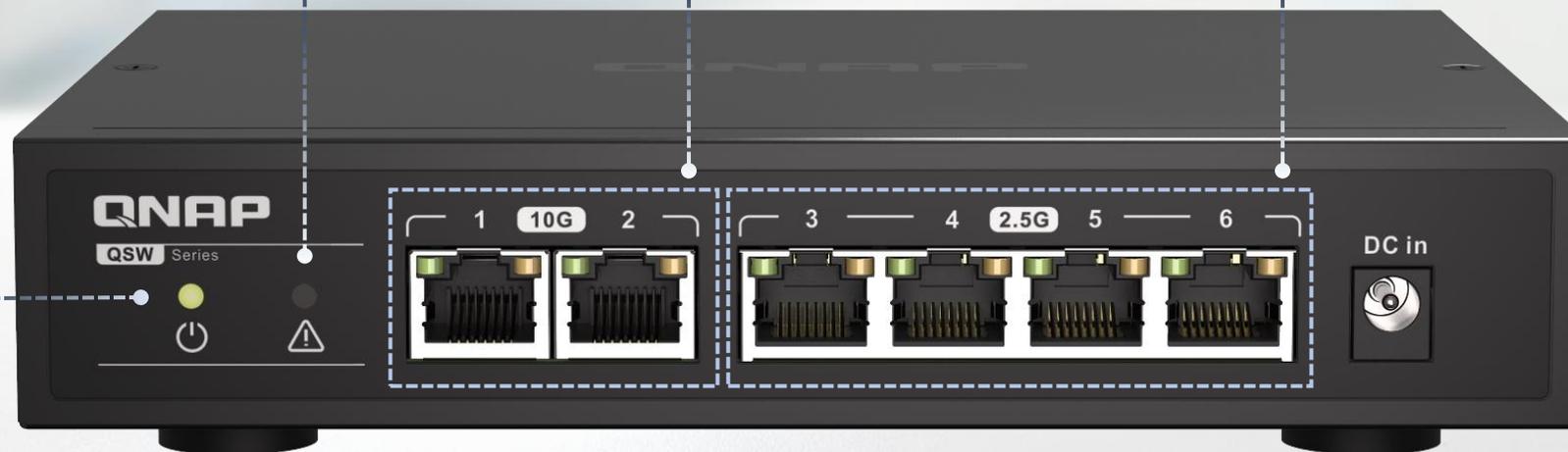
QSW-2104-2T 硬體介面

Status LED

Loop indicator

10GbE RJ45 ports

2.5GbE RJ45



無風扇設計讓你不受噪音干擾

- 桌上型無風扇設計
- 擺在家裡室內也不擔心噪音問題



額外功能亮點



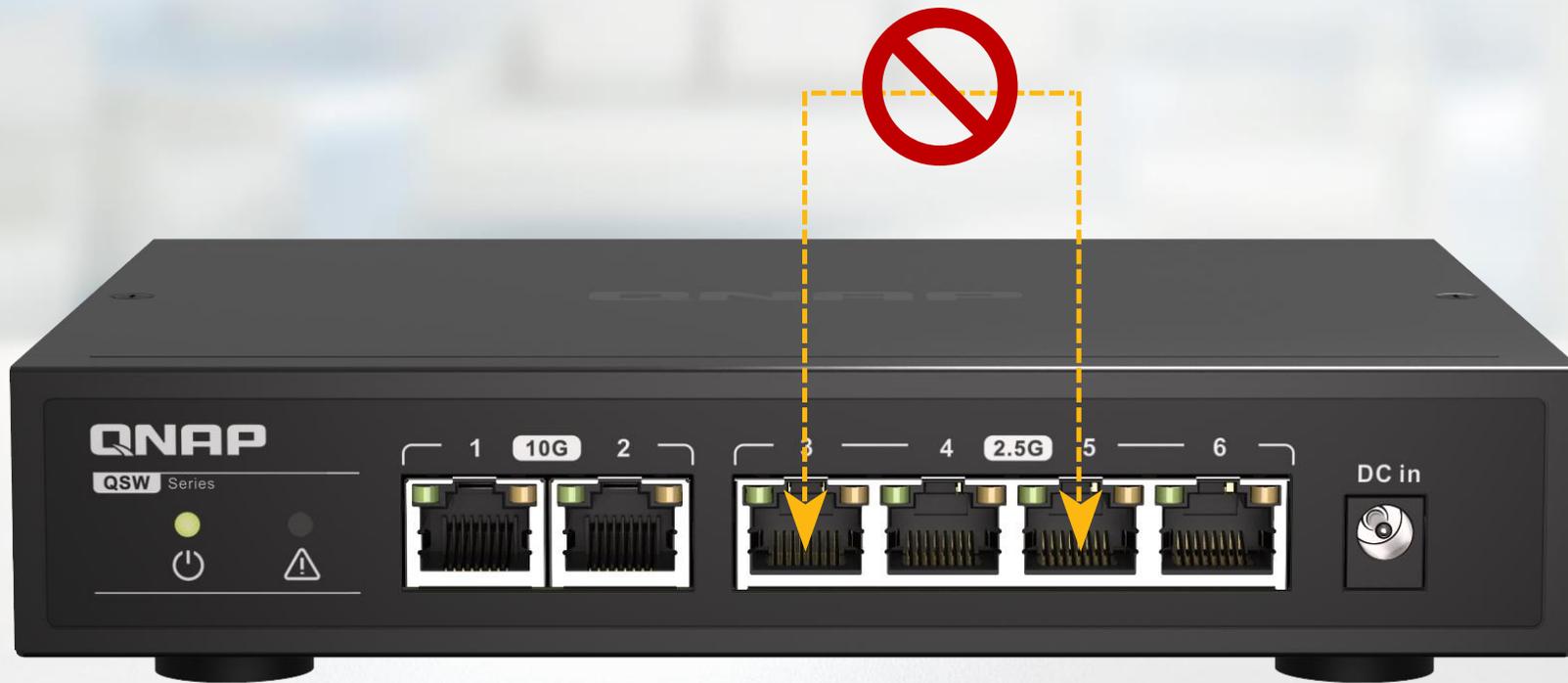
QSW-2104-2S



QSW-2104-2T

防迴圈功能避免不小心接錯網路線

- 通常是高階有管理介面的交換機才支援
- 內建自動迴圈偵測，不用擔心迴圈讓整個網路癱瘓



全自動設計不需設定

- 隨插即用不需設定
- 簡單到任何人都可以操作



完美搭配QNAP 高速解決方案



QSW-2104-2S



QSW-2104-2T

QNAP 2.5GbE戰隊成形，為您提供更好更快的網路體驗

專業人士高效存取



Intel Celeron J4125 四核 2.0GHz, 2 x 2.5GbE,
PCIe 擴充 M.2 NVMe/ SATA SSD 或 10GbE



TS-653D

TS-453D

TS-253D

Annapurna Labs AL-314 四核 1.7GHz,
1 x 10GbE SFP+, 1 x 2.5GbE



TS-431X3

數位家庭高品質影音享受

Annapurna Labs AL-314
四核 1.7GHz, 1 x 2.5GbE



TS-231P3

TS-431P3

搭配內建 2.5/5/10GbE 網路的桌上型 NAS

搭載 10GbE BASE-T



TVS-h1688X / TVS-h1288X



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



TS-832PX



TS-431X3
10GbE + 2.5GbE

搭載 5GbE BASE-T



TVS-872N / TVS-672N



TS-h886 / TS-h686

搭載 2.5GbE BASE-T



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

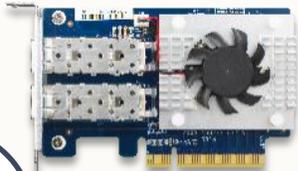


TS-431P3 / TS-231P3

網路擴充：豐富的各式 PCIe 網路擴充卡

10GbE 網路擴充卡

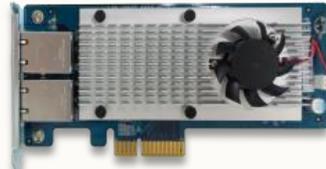
QXG-10G2SF-CX4



2 x SFP+



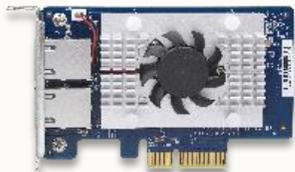
LAN-10G2T-X550



2 x RJ45



QXG-10G2T-107



2 x RJ45



QXG-10G1T



1 x RJ45

5GbE 系列

QXG-5G Family



1 x RJ45



2 x RJ45



4 x RJ45



2.5GbE 系列

QXG-2.5G Family



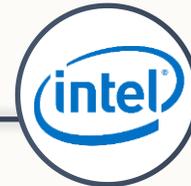
1 x RJ45



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 speed: 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>

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QSW-2104 Series

2.5GbE/10GbE
無網管交換器



QSW-2104-2S



QSW-2104-2T