QNAP

2 x M.2
SSD slots

10GbE
10GBASE-T*

Qtier | SSD cache

Cooling Module | Self-monitoring

Dual M.2 SSD/10GbE expansion card

QM2 PCIe Card

Maximize NAS performance and connectivity

The QM2 is a PCIe card that adds support for M.2 SSDs and 10GbE/5GbE/2.5GbE/ 100MbE RJ45 connectivity (optional) to a QNAP NAS*, effectively enhancing NAS storage performance and data transmission capabilities. Up to two M.2 22110/2280 SSDs can be installed to create a RAID 1 or RAID 0 caching pool to boost performance, or a storage volume in a tiered storage pool to optimize storage efficiency with Qtier™ auto-tiering.

Combining SSD and 10GbE connectivity into one PCIe card, the QM2 can help construct a 10GbE environment for optimizing bandwidth-demanding operations.

* Ordering SKUs
QM2-2S: Supports two M.2 2280 / 22110 SATA SSD
QM2-2P: Supports two M.2 2280 / 22110 PCIe SSD
QM2-2S10G1T: Supports two M.2 2280 SATA SSD and one single-port 10GBASE-T 10GbE connection
QM2-2P10G1T: Supports two M.2 2280 PCIe SSD and one single-port 10GBASE-T 10GbE connection

Feature Spotlight

M.2 SSD thermal sensor
Real-time M.2 SSD temperature monitoring

Dual M.2 slots*
Up to two M.2 22110/2280 SSDs
(M.2 SSDs are not included)

M.2 SSD status indicators
Monitor M.2 SSD status

Adjustable screws for varied SSD thickness
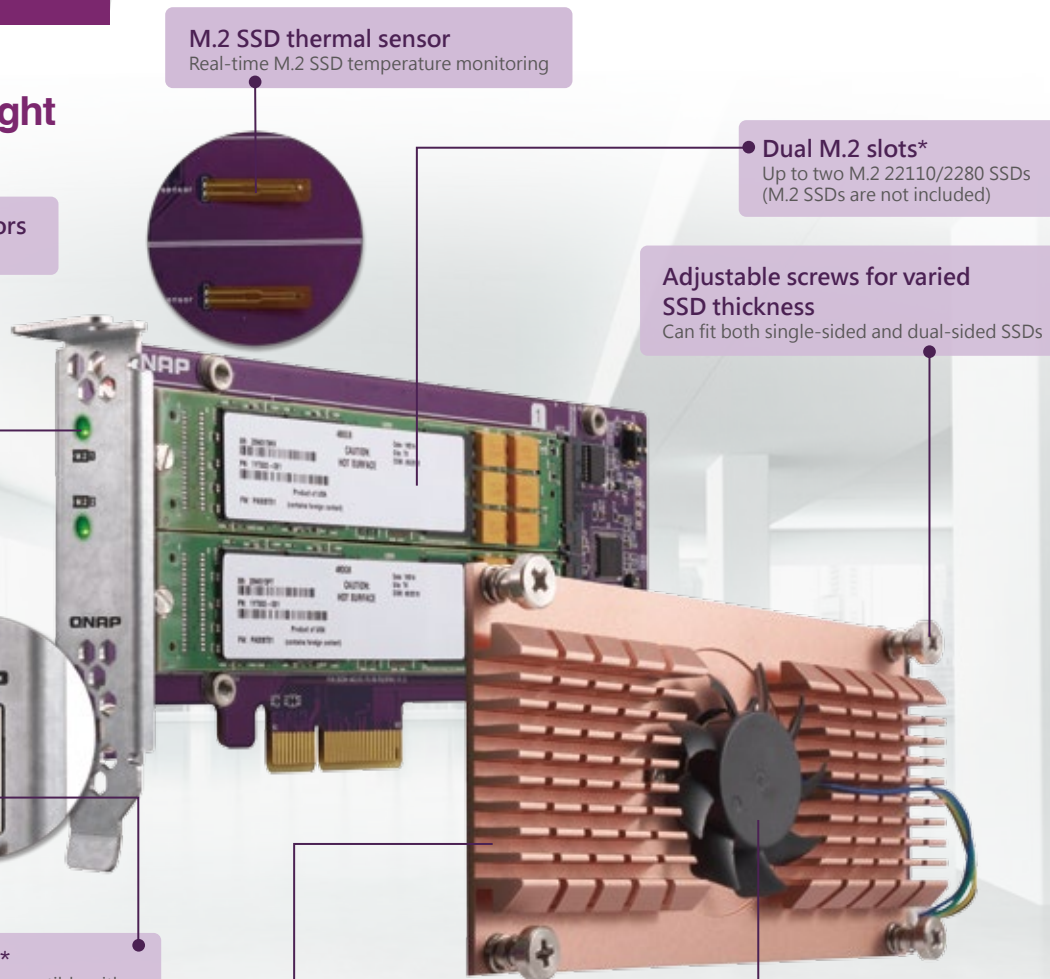Can fit both single-sided and dual-sided SSDs

Ordering SKUs

QM2-2S10G1T

QM2-2P10G1T

10GbE 10GBASE-T port*
Easy to install and backwards compatible with 5GbE/2.5GbE/1GbE/100MbE

Custom-made aluminum-alloy cooling module
Prevent overheating and thermal throttling to ensure high SSD performance

Smart and quiet fan
Auto-adjust based on SSD and overall temperature

SSD Cache & Qtier™ Technology

SSD caching can be easily implemented and managed with the QTS Storage Manager to improve the overall workflow of IOPS-demanding applications such as virtualization or other demanding applications. Qtier, a multi-tier storage management system, automatically migrates data based on access frequency - with frequently-accessed "hot" data being moved to SSDs and infrequently accessed "cold" data being moved to slower, higher-capacity drives. This intelligent system provides innumerable benefits for organizations in ensuring optimal storage efficiency while saving money on expensive flash storage.

* For models that support Qtier, please go to www.qnap.com.

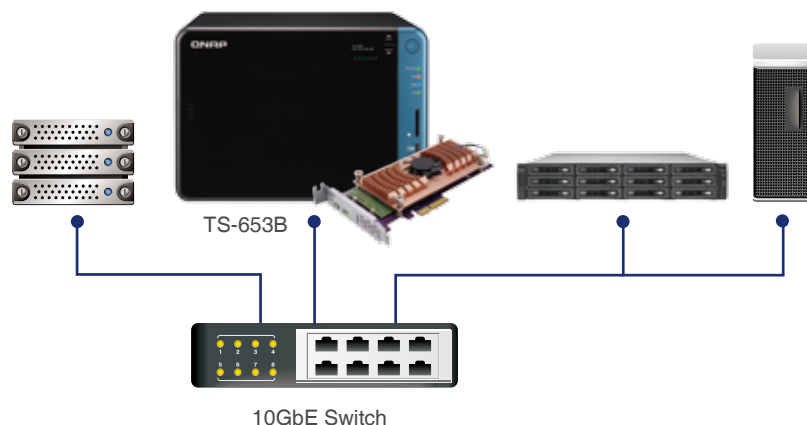High Performance   Optimal Storage Efficiency   Schedule   Cost Saving

10GbE Connectivity

Implementing 10GbE network infrastructure is becoming increasingly affordable, with the higher bandwidth also becoming essential for everyday IOPS-demanding applications. With 10GBASE-T connectivity, the QM2-2S10G1T and QM2-2P10G1T are cost-effective solutions for adding 10GbE connectivity to compatible QNAP NAS, saving time and money for users when upgrading their network infrastructure.

TS-653B

10GbE Switch

Hardware Specifications

Ordering SKUs	QM2-2S	QM2-2P	QM2-2S10G1T	QM2-2P10G1T
Interface	PCI Express 2.0 x4			
Supported M.2 SSD Types	2 x M.2 2280/22110 SATA SSD	2 x M.2 2280/22110 PCIe SSD	2 x M.2 2280 SATA SSD	2 x M.2 2280 PCIe SSD
10GbE Support	N/A		1 x 10GBASE-T 10GbE LAN support (backwards compatible with 5GbE/2.5GbE/1GbE/100MbE)	
Operating System	QTS 4.3.3 (or later)			
Dimensions (Length x Width x Height)	159.85(L) x 90.3(W) x 20.6(H) mm; 6.29(L) x 3.56(W) x 0.81(H) inch, Half-Height, Half-Length (HHHL), low-profile PCIe card			
Temperature	0 to 40°C (32 to 104°F)			
Compatible NAS Models	TS-531P, TS-531X, TS-831X, TS-x31XU, TS-1635, TS-x53B, TS-563, TVS-x63, TS-x63U, TS-x70, TS-x70U, TVS-x71, TVS-x71U, TVS-x73, TVS-x82(T)** **TVS-x82(T) only supports the System Zone PCIe slot			

Model specifications are subject to change without notice. Please refer to www.qnap.com for the latest information.