



Dual-port 10 GbE network expansion card (Legacy)

Controller	NVIDIA Mellanox ConnectX-4 Lx
Number of Ports	2 x SFP+ ports
Connector	SFP+
PCIe and Lanes	PCIe Gen3 x8
Transmission Rates	10Gbps
IEEE Standards	<p>IEEE Std 802.3ae 10 Gigabit Ethernet</p> <p>IEEE Std 802.3az Energy Efficient Ethernet</p> <p>IEEE Std 802.3ap based auto-negotiation between 1, 10, 40 Gb/s, FEC, and KR startup</p> <p>Proprietary Ethernet protocols (20/40GBASE-R2, 50GBASE-R4)</p> <p>IEEE Std 802.3ad Link Aggregation and Failover</p> <p>IEEE 802.1Q, 802.1p VLAN tags and priority</p> <p>IEEE Std 802.1Qau Congestion Notification (QCN)</p> <p>IEEE Std 802.1Qaz (ETS)</p>
Bracket	Low-profile bracket pre-installed; full-height and specialized (for selected QNAP NAS) brackets are bundled
SR-IOV Support	Yes
RDMA over Converged Ethernet (RoCE), Zero Touch RoCE (ZTR) Support	Yes
VLAN insertion/stripping Support	Yes
iSER Support	Yes
NVGRE, VXLAN, Geneve Support	Yes
How many virtual functions	256
How many physical functions per host	8
Supported NAS operating systems	QTS/QuTS hero (recommend an upgrade to the latest version); Windows (Driver required); Linux (Driver required)

Supported QNAP NAS	Models with PCIe slot(s) (1 free slot required)
Support Ubuntu Commercial Linux Distribution	Ubuntu 18.04/20.04
Support Windows	Windows 8/10
Port and Cable	SFP+ DAC cable (1.5M, 3M, 5M) or SFP+ OPTIC transceiver
Package Contents	1 x Network card; 1 x QIG; 3 x Brackets

Note: Use only QNAP memory modules to maintain system performance and stability. For NAS devices with more than one memory slot, use QNAP modules with identical specifications.

Warning: Using unsupported modules may degrade performance, cause errors, or prevent the operating system from starting.

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