



## Dual-port 100 GbE network expansion card

Controller	NVIDIA Mellanox ConnectX-6 Dx
Number of Ports	2 x QSFP28
Connector	QSFP28
PCIe and Lanes	PCIe 4.0 x16 (Compatible to PCIe 3.0 x16)
Transmission Rates	100Gbps
IEEE Standards	<ul style="list-style-type: none"> <li>&gt; IEEE 802.3bs, 200 Gigabit Ethernet</li> <li>&gt; IEEE 802.3cd, 50, 100 and 200 Gigabit Ethernet</li> <li>&gt; IEEE 802.3bj, 802.3bm 100 Gigabit Ethernet</li> <li>&gt; IEEE 802.3by, 25, 50 Gigabit Ethernet supporting all FEC modes</li> <li>&gt; IEEE 802.3ba 40 Gigabit Ethernet</li> <li>&gt; IEEE 802.3ae 10 Gigabit Ethernet</li> <li>&gt; IEEE 802.3az Energy Efficient Ethernet (supports only "Fast- Wake" mode)</li> <li>&gt; IEEE 802.3ap based auto- negotiation and KR startup</li> <li>&gt; IEEE 802.3ad, 802.1AX Link Aggregation</li> <li>&gt; IEEE 802.1Q, 802.1P VLAN tags and priority</li> <li>&gt; IEEE 802.1Qaz (ETS)</li> <li>&gt; IEEE 802.1Qbb (PFC)</li> <li>&gt; IEEE 802.1Qbg</li> <li>&gt; 25/50 Ethernet Consortium "Low Latency FEC" for 50GE/100GE/200GE PAM4 links</li> <li>&gt; PCI Express Gen3 and Gen4</li> </ul>
Bracket	Low-profile bracket pre-installed; full-height and specialized (for selected QNAP NAS) brackets are bundled
SR-IOV Support	Yes
Crypto Hardware Accelerator 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	1K virtual functions per port
How many physical functions per host	8 physical functions
Supported NAS operating systems	QTS (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	QSFP28 DAC cable or QSFP28 OPTIC transceiver
Package Contents	1 x Network card; 1 x QIG; 2 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.

QNAP reserves the right to replace partial parts or accessories if the original is no longer available from its manufacturer/supplier.

Any replacement would be fully tested and verified to meet strict compatibility and stability guidelines and will deliver identical performance to the original.

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