

# Quad to Serial Small Form Factor Pluggable Adapter

Enabling VPI/40GigE Connectivity on 1/10GigE Infrastructure

The Quad to Single Small Form Factor Pluggable Adapter (QSFP to SFP+ adapter or QSA) is the world's first solution for the QSFP to SFP+ conversion challenge.

The QSA enables smooth, cost effective, connections between Virtual Protocol Interconnect® (VPI) or 40 Gigabit Ethernet adapters using contemporary QSFP ports and 1 or 10 Gigabit Ethernet networks using existing SFP or SFP+ based cabling. Similarly, Ethernet switches with 40Gb/s QSFP ports can connect to servers with 10Gb/s Ethernet NIC ports using QSA.

Mellanox QSA conforms to the SFF-8431 SFP+ and SFF-8436 QSFP connector standards and is 100 percent tested to strict quality requirements. The adapter is built in QSFP form factor with a receptacle for SFP+ cable connector.

A list of certified cables and adapters available from Mellanox or verified third-part vendors can be found at [www.mellanox.com](http://www.mellanox.com).



## HIGHLIGHTS

- Industry-leading price/performance
- Trouble-free installation and network bring-up
- Compliant to industry standards
  - QSFP MSA SFF-8436
  - SFP+ MSA SFF-8431
- Superior signal integrity
- Low crosstalk
- Low insertion loss
- Matched impedance
- Secure latching mechanism
- RoHS-6 compliant
- 1-year warranty

The following Mellanox Ethernet and VPI cards are interoperable with the QSA:

HCA Products	
Mellanox Supported OPN's	
MHRH19B-XTR	Single 4X 20Gb/s InfiniBand or 10GigE
MHRH29B-XTR	Dual 4X 20Gb/s InfiniBand or 10GigE
MHQH19B-XTR	Single 4X 40Gb/s InfiniBand or 10GigE
MHQH29B-XTR	Dual 4X 40Gb/s InfiniBand or 10GigE
MHZH29-XTR	4X QSFP 40Gb/s InfiniBand, SFP+ 10GigE

QSA requires Firmware 2.8.0000 or later installed on above cards. For additional information on interoperability, please contact your Field Application Representative..