Mellanox TECHNOLOGIES

Quad to Serial Small Form Factor Pluggable Adapter

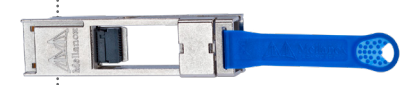## Enabling 10GbE Connectivity on 40GbE Infrastructure

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 quad lane port such as 40 Gigabit Ethernet adapters using QSFP+ ports and 10 Gigabit Ethernet hardware using SFP+ based cabling.

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.

The QSA provides an integration solution for systems using different vendors equipment, the QSA is vendor agnostic and provides a direct path to the SFP module memory. The QSA interoperates with all major optical module and direct attached copper cables vendors. The QSA design assures minimum loss on the conversion path from the QSFP+ cage to the SFP+ receptacle.

The QSA is a Mellanox registered US patent #7-934-959. A list of certified cables and adapters available from Mellanox or verified third-part vendors can be found at www.mellanox.com.

HIGHLIGHTS

– Industry-leading price and 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
– Registered US patent #7934959
– Matched impedance
– Secure latching mechanism
– RoHS-6 compliant
– 1-year warranty

Table 1 - Cable Specifications and Ordering Information

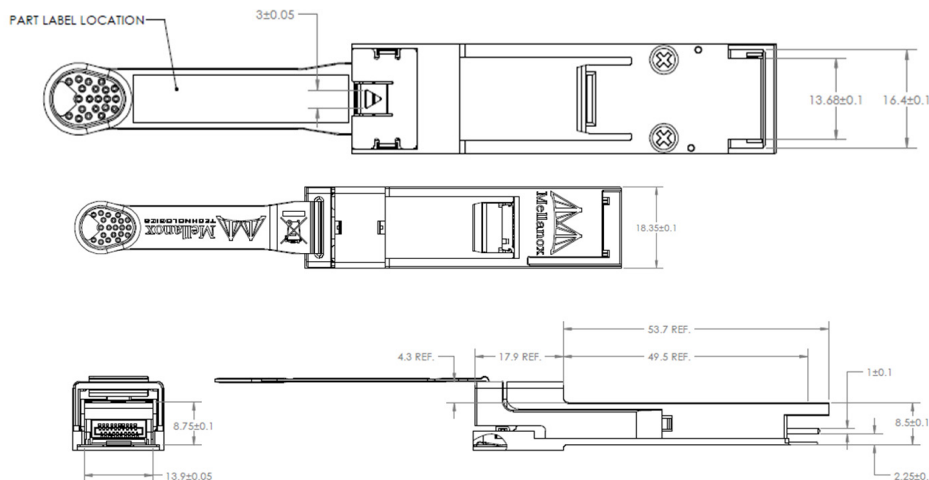| Description	Part Number
Mellanox cable module, ETH 10GbE, 40Gb/s to 10Gb/s, QSFP to SFP+	MAM1Q00A-QSA

Figure 1. *Mechanical Drawings and Information*

350 Oakmead Parkway, Suite 100, Sunnyvale, CA 94085
Tel: 408-970-3400 • Fax: 408-970-3403
www.mellanox.com

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