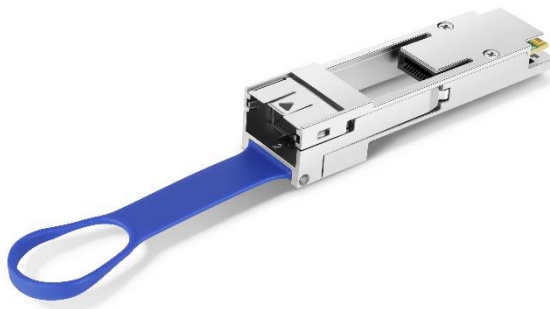# E-QSFP-SFP+-CVR

40G QSFP+ To 10G SFP+ Adapter Converter

Features

- Trouble-free installation and network bring-up
- Compliant to industry standards: SFF-8436
- Compliant to industry standards: SFF-8432
- Precision process control for minimization of pair-to-pair skew
- 1 independent duplex channels operating at 10Gbps, also support for 5Gbps data rates
- All-metal housing for superior EMI performance
- 100ohm differential impedance system
- Operating case temperature: -20 to 85℃
- Low insertion loss
- Low crosstalk
- Secure latching mechanism
- RoHS compliant
- Compatible with RoHS
- Single +3.3V power supply

Applications

- Low EMI radiation Switches, servers and routers
- Telecommunication and wireless infrastructure

- Test and measurement equipment
- Networked storage systems
- Data Center networks
- Storage area networks

The E3-Link QSFP to SFP+ Adapter (QSA) Module offers 10Gigabit Ethernet connectivity for Quad Small Form-Factor Pluggable (QSFP)-only platforms. It allows smooth and cost-effective migration to 40 Gigabit Ethernet by providing an option to use lower-speed Enhanced Small Form-Factor Pluggable (SFP+) modules in empty QSFP ports or when the other end of the network is running at lower speeds.

The QSA Module interoperates with all major optical modules and direct attached copper cable vendors. Its design assures minimum loss on the conversion path between the QSFP cage and the SFP+ receptacle. The high-speed data channel of the SFP+ receptacle is connected to lane 1 of the QSFP connector. The three remaining channels on the QSFP connector are not connected. With this adapter, customers have the flexibility to use any SFP+ module or cable to connect to a lower-speed port on the other end of the network. This flexibility allows a cost-effective transition to 40 Gigabit Ethernet by maximizing the use of high-density 40 Gigabit Ethernet QSFP platforms. This adapter supports all SFP+ optics and cable reaches. Compatible switch models and SFP+ modules. A list of SFP+ modules that can be plugged into the QSA module is provided in Table 1

The E-QSFP-SFP+-CVR is qualified for 10GbE SFP+ and 1GbE SFP transceivers meeting the Small Form Factor Pluggable (SFP) Transceiver Multi-source Agreement (MSA). The QSA module provides a solution for integrating systems using different vendors 'equipment, is vendor agnostic and provides a direct path to the SFP port unit's memory.

Table 1.

Product Name	Product Description
SFP-10G-SR	10GBASE-SR SFP+ Module for Multimode Fiber
SFP-10G-LR	10GBASE-LR SFP+ Module for Single-Mode Fiber
SFP-10G-ER	10GBASE-ER SFP+ Module for Single-Mode Fiber
SFP-10G-ZR	DWDM SFP+ Modules for Single-Mode Fiber
SFP-H10GB-CUxM (ACUxM)	SFP+ Twinax Copper Cables (1-m to 10-m lengths)
SFP-10G-AOCxM	SFP+ Active Optical Cable Assembly