



40GBASE-SR4 850nm QSFP+ Optical Transceiver

The Solarflare® SFM40G-SR4 850nm QSFP+ optical transceivers are compatible with all Solarflare 40G Ethernet QSFP+ products, and deliver a complete solution to customers for 40GBASE-SR4 applications.

SFM40G-SR4 850nm QSFP+ optical transceivers are hot-pluggable QSFP+ footprint devices for use in 40-Gigabit Ethernet links over multi-mode fiber. They are compliant to the QSFP+ MSA SFF-8436 and IEEE 802.3ba 40GBASE-SR4 and XLPP1 QSFP+ specifications.

The transceiver is a Quad (4-channel) Small Form-factor Pluggable (QSFP+), optical module as defined in the QSFP+ SFF-8436 specification. This low-power module supports multi-mode fiber (MMF) media with standard MTP (MPO) optical connectors.

Compatibility and Performance

The SFM40G-SR4 QSFP+ optical transceiver uses proven high reliability 850 nm technology, is fully tested, and is compatible with all Solarflare QSFP+ 40GbE server adapters. The SFM40G-SR4 supports up to 100 meter using OM3 multimode fiber and the industry-standard MTP (MPO) optical connector.

Superior Customer Experience

For added convenience, Solarflare's optical transceivers can now be purchased together with server adapters for simultaneous delivery. This optical transceiver product also facilitates those who are ordering a complete server adapter solution in a single transaction.

A Complete Solution

The SFM40G-SR4 QSFP+ transceiver enhances Solarflare's 40GbE QSFP+ server adapter products by ensuring they deliver highly-scalable performance, low-latency, and low-power. Combined with the SFM40G-SR4 transceiver, Solarflare server adapters offer exceptional value for data centers, enterprise networks, high-performance computing (HPC), cloud, big data, grid, and virtualization applications.

Regulatory Compliance

SFM40G-SR4 optical transceiver is designed for EN (IEC) 60825 and US FDA CDRH eye safety compliance and is certified as a Class 1M laser product. The transceiver is RoHS compliant and lead-free.

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Specifications

Product Number

SFM40G-SR4
QSFP+ Optical Transceiver

Compatible Products

SFN7142Q

Standards & Compliance

IEEE 802.3ba
QSFP+ MSA SFF-8436
RoHS-6 Compliant
Class 1M laser
FCC Part 15

Power (typical)

SFM40G-SR4: < 1.5W

Operating Range

0° to 70° C
0 LFM, Min.

Physical Dimensions

L: 5.65 cm (2.224 in)
W: 1.37 cm (0.539 in)
H: 1.186 cm (0.465 in)

Advanced Features

Product

40GBASE-SR4 QSFP+ Optical Transceiver

Application/Usage

Data Networking

Form Factor

Quad Small Form-factor Pluggable (QSFP+)

Mechanical Compatibility

QSFP+ MSA SFF-8436

Connector Type

MTP (MPO) optical connector

Interface Ports

1 x 40GBASE-SR4 (IEEE 802.3ba)

Media Type

Multi-mode fiber

Data Link Protocol

40 Gigabit Ethernet (40GbE)

Data Transfer Rate

40 Gbps

Maximum Reach

100 Meters (OM3 fiber)

Optical Wavelength

850 nm

Lead Free

RoHS-6

Packaged Quantity

1

SolarflareSFM40G-SR4

