

Article Overview

RoHS-compliant 40G QSFP+ optical transceivers are available for both short-range and long-range Ethernet applications, supporting 40Gbps data rates with eco-friendly, high-performance connectivity.

Key Options

- o 40GBASE-SR4 QSFP+ (Short-Range)
- o Supports 40Gb Ethernet over multimode fiber up to 300m (some modules up to 150m)
- o Uses MPO connectors and 850nm VCSELs
- o RoHS compliant for environmentally safe operation
- o Ideal for data center interconnects and short-range network links
- o Example: 40GMSRSFPC by Lasermate

- o 40GBASE-LR4 QSFP+ (Long-Range)
- o Supports 40Gb Ethernet over single-mode fiber up to 10 km
- o Uses LC connectors with 4 CWDM lanes and integrated MUX/DEMUX
- o RoHS compliant, with built-in digital diagnostics
- o Suitable for enterprise networks, campus backbones, and metro networks
- o Example: Color-Chip 40G QSFP+ LR4 Transceiver, Fiberate 40G QSFP+ LR4

- o Extended-Range and DWDM Options
- o Modules supporting 20 km to 80 km transmission over single-mode fiber
- o Compliant with IEEE 802.3ba/802.3bm standards and QSFP+ MSA
- o RoHS compliant, suitable for high-speed IDC connections and DWDM systems
- o Example: Fiberwdm 40G QSFP-ELR4 and DWDM QSFP+ modules

Features to Consider

- o Form Factor: QSFP+ (Quad Small Form-factor Pluggable) for 40G Ethernet
- o Fiber Type: Single-mode (SMF) for long-range, multimode (MMF) for short-range
- o Connector Type: LC for SMF, MPO for MMF
- o Compliance: RoHS ensures environmentally safe materials
- o Diagnostics: Many modules include digital monitoring for temperature, voltage, and optical power
- o Compatibility: Works with IEEE-compliant 40G interfaces and major switch/router brands

Summary

For a RoHS-compliant 40G optical router setup, you can select QSFP+ transceivers based on your required distance and fiber type. Short-range SR4 modules are ideal for intra-data center links, while LR4 and



RoHS compliant optical router 40G

extended-range modules support campus or metro networks. All recommended modules are RoHS compliant, ensuring eco-friendly and reliable high-speed connectivity .

Features 4 independent full-duplex channels active optical cable Electrical interface only Complies with QSFP MSA high-density form

Certified and tested on Cisco QSFP 40G ports for superior performance, quality, and reliability High-speed electrical interface

For optical transceivers, which contain various electronic components, circuit boards, and optical assemblies,

Product Overview The 40G transceiver module portfolio offers customers a wide variety of high-density and low-power 40Gigabit

Optical connectivity based on two SMF LC connectors Optical engine combining uncooled 4 X 10Gbps

Arista supports a full range of 400G optical transceivers, Active Optical Cables (AOCs) and Direct Attach Copper cables (DACs) in

40Gb/s QSFP+ Active Optical Cables (AOC) DESIGNED FOR USE IN 40 GIGABIT ETHERNET APPLICATIONS. COMPLIANT

Features Hot pluggable to maximize uptime and simplify serviceability Flexible choice of compatibility, distance and interface for all

Nexconec ® 40G QSFP+ SR4 Transceivers are designed for use in 40 Gigabit per second links over

40g Lr4 RoHS Compliance SFP Ethernet Fiber Optical FC St Interface Transceiver Network Module, Find Details and

40G QSFP+ LR4 Transceiver Overview 40Gbps hot pluggable transceiver in QSFP+ form factor Optical connectivity based on two

DESIGNED FOR USE IN 40 GIGABIT ETHERNET APPLICATIONS. COMPLIANT WITH

FiberWDM provides a full range of 40G QSFP+ optical transceivers in the range of 100m to 40km. All QSFP+ transceivers have been

Functionally Equivalent to Cisco QSFP-40G-LR4 Transceiver Module The MSA-compliant N286-40G-LR4



RoHS compliant optical router 40G

functions just like the

The QSFP+ module is designed for use in 40GBASE Ethernet throughput up to 80km over single mode fiber (SMF) using a

Safety Compliance: This module is Class 1 FDA laser safe and RoHS compliant, meeting critical safety and environmental

Web: <https://bssoda.pl>

