

PLANET Fiber Transceiver

QSFP-40G-SR4/QSFP-40G-LR4



Trademarks

Copyright © PLANET Technology Corp. 2017

Contents are subject to revision without prior notice.

PLANET is a registered trademark of PLANET Technology Corp. All other trademarks belong to their respective owners.

Disclaimer

PLANET Technology does not warrant that the hardware will work properly in all environments and applications, and makes no warranty and representation, either implied or expressed, with respect to the quality, performance, merchantability, or fitness for a particular purpose.

PLANET has made every effort to ensure that this User's Manual is accurate; PLANET disclaims liability for any inaccuracies or omissions that may have occurred.

Information in this User's Manual is subject to change without notice and does not represent a commitment on

the part of PLANET. PLANET assumes no responsibility for any inaccuracies that may be contained in this User's Manual. PLANET makes no commitment to update or keep current the information in this User's Manual, and reserves the right to make improvements to this User's Manual and/or to the products described in this User's Manual, at any time without notice.

If you find information in this manual that is incorrect, misleading, or incomplete, we would appreciate your comments and suggestions.

FCC Warning

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the Instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

CE Mark Warning

This is a Class A product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.

WEEE Warning



To avoid the potential effects on the environment and human health as a result of the presence of hazardous substances in electrical and electronic equipment, end users of electrical and electronic equipment should understand the meaning of the crossed-out wheeled bin symbol. Do not dispose of WEEE as unsorted municipal waste and have to collect such WEEE separately.

Revision

User's Manual of PLANET QSFP+ Transceiver

For Models: QSFP-40G-SR4/QSFP-40G-LR4

Rev: 1.0 (December, 2017)

Part No: 2350-AG0890-000

1. Overview

Thank you for purchasing PLANET QSFP+ Transceiver which includes the Ethernet module of the QSFP-40G-SR4 and QSFP-40G-LR4.

The QSFP+ 40G Ethernet modules can be installed in PLANET switch products with 40G QSFP+ interface. The QSFP+ transceivers can be extended from a distance of 100m (multi-mode, MPO/MTP) to up to 10km (single-mode, LC).

2. Checklist

Your QSFP+ Package should contain the following items:

- The QSFP+ Transceiver Module x 1
- The User's Manual x 1

If any item is missing or damaged, please consult the dealer from whom you purchased your QSFP+ 40G Ethernet transceiver module.

3. Introduction and Model List

3-1 The QSFP-40G Series Ethernet Transceiver Module List

40G Ethernet Transceiver (40GBASE-SR4/LR4 QSFP+)

Model	DDM	Speed (Mbps)	Connector Interface	Fiber Mode	Distance	Wavelength (nm)	Operating Temp.
QSFP-40G-SR4	YES	40G	MPO/MTP	Multi mode	100m(OM3) 150m(OM4)	850nm	0 ~ 60°C
QSFP-40G-LR4	YES	40G	LC	Single mode	10km	1310nm	0 ~ 60°C

Attenuation coefficient	Wavelength region	Typical link value
	1260nm-1360nm	0.5 dB/km

Physical Fiber Cable Length "n" km	SFP Model
	QSFP-40G-LR4
	10 < n < 20
20 < n < 40	--

4. Installing QSFP+ Transceiver Module

4-1 Install the QSFP+ Ethernet Transceiver Module

Please follow these steps to install the QSFP+ Ethernet transceiver module:

1. Power on the Switch and place the Switch on a flat surface. Install the new QSFP+ Ethernet transceiver module by inserting it into the slot and sliding it in until it stops (See **Figure 1**). Press it firmly until you hear the module snap into place. Never force, twist or bend the QSFP+ Ethernet transceiver module. The QSFP+ Ethernet transceiver module slides in smoothly and the Switch will automatically detect the new module.

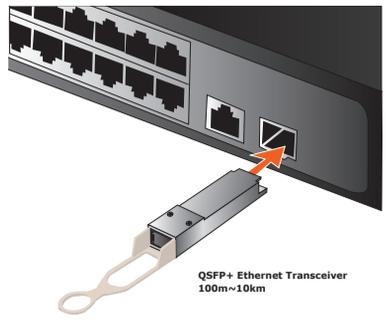


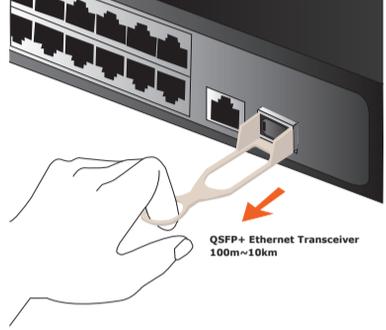
Figure 1: Insert the QSFP+ Ethernet Transceiver Module

2. After the Fiber connection is done successfully, check the LEDs to verify whether there is a link and a proper connection at the port.

Please refer to the user's manual for more about the Switch or module's management.

4-2 Remove the QSFP+ Ethernet Transceiver Module

1. Make sure there is no network activity by consulting or checking with the network administrator.
2. Remove the Fiber Optic Cable gently.
3. Turn the handle or pull out the tab of the QSFP+ Ethernet Transceiver module gently.



Warning

Never pull out the QSFP+ Ethernet Transceiver module without pulling the handle or the push bolts on the module. Directly pulling out the QSFP+ Ethernet Transceiver module would damage the QSFP+ Ethernet Transceiver module.

Appendix A

A.1 Fiber Optic Cable Connection Parameters

The wiring details are shown below:

■ Fiber Optic Patch Cables:

Standard	Fiber Type	Cable Specifications
40GBASE-SR4	Multi-mode	50/125 μ m
40GBASE-LR4	Single mode	9/125 μ m

Safety Notice

Fiber optic SFP modules are equipped with a Class 1 laser, which emits invisible radiation. Read the following safety warnings carefully:



Note

Class 1 Laser Product
Complies with FDA Regulation 21 CFR 1040.10 and 1040.11



Warning

Class 1 radiation is present when the device or system is powered up.



Warning

Only trained and qualified personnel should be allowed to install or replace these modules.

PLANET Technology Corp.

10F., No 96, Minquan Rd., Xindian Dist.,
New Taipei City 231, Taiwan



2350-AG0890-000