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tp-link DS-PMA-C++ SFP GPON Class C++ Module

Product Information

Specifications

- **Normal Wave Length:** XGS-PON: Tx: 1577 nm, Rx: 1270 nm; XG-PON: Tx: 1577 nm, Rx: 1270 nm; GPON: Tx: 1490 nm, Rx: 1310 nm
- **Standards and Protocols:** ITU-T G.984.2 Amendment 2
- **Cable Fiber Type:** Single-mode Fiber
- **Max. Cable Length:** 20 km
- **Data Rate:** XGS-PON: Tx: 9953 Mbit/s, Rx: 9953 Mbit/s; XG-PON: Tx: 9953 Mbit/s, Rx: 2488 Mbit/s; GPON: Tx: 2488 Mbit/s, Rx: 1244 Mbit/s
- **Tx Power:** XGS-PON: +5 dBm ~ +8 dBm; XG-PON: +5 dBm ~ +8 dBm; GPON: +3 dBm ~ +7 dBm
- **Rx Sensitivity:** XGS-PON: >-8.0 dBm; XG-PON: >-10.0 dBm; GPON: >-12.0 dBm
- **Extinction Ratio:** XGS-PON: 8.2 dB
- **Optical Power Port Type:** Combo PON, SC
- **Power Support:** 3.3 V (-12.0 dBm)
- **Safety & Emission:** GPON SFP, SC/UPC 3.3 V (-12.0 dBm)
- **DDM SFP-MSA Hot Swappable**

Product Usage Instructions

Install the Transceiver

1. Wear an ESD-preventive wrist or ankle strap to prevent ESD damage to the

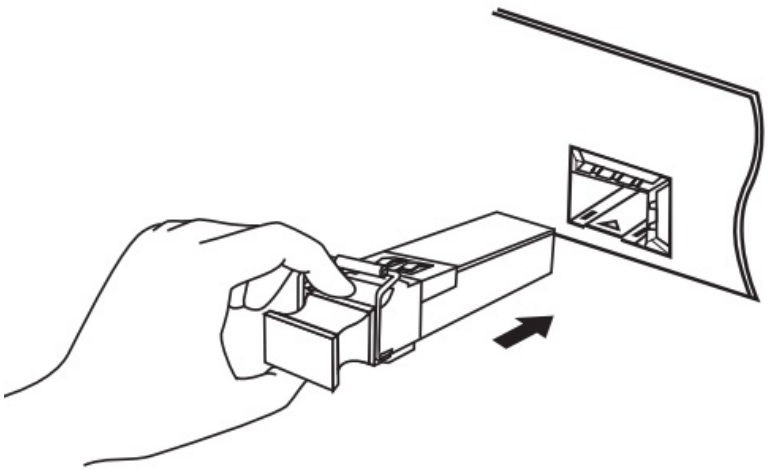
transceiver.
2. Insert the transceiver into the slot and firmly press it into place.

Remove the Transceiver

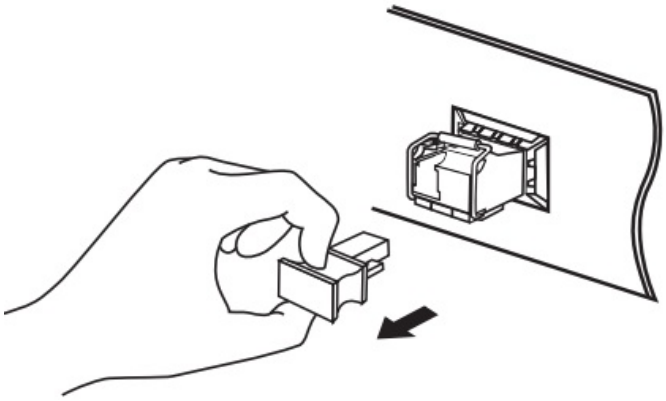
1. Wear an ESD-preventive wrist or ankle strap to prevent ESD damage to the transceiver.
2. Disconnect the network fiber-optic cable from the transceiver.
3. Remove the protective dust plug from the transceiver.
4. Pull the safety latch downwards to release the transceiver, and then pull it out from the slot.
5. Plug a fiber-optic cable into the transceiver. Note that the transceiver works without any additional configuration.
6. Reinstall the protective dust plug in the transceiver's optical bores and place it on an antistatic mat or a static shielding bag.
    - **Note:** Do not touch the output pins on the transceiver with your hand.
    - Always keep the protective dust plug on the transceiver's optical bores until you are ready to make a connection.
    - **Caution:** DO NOT point or stare directly into the beam or the optical port of the transceiver when it is operating, as this can injure your eyesight.

Install the Transceiver

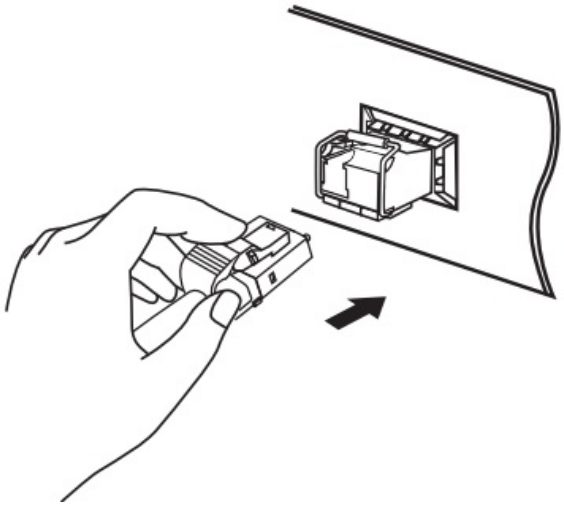
1. Wear an ESD-preventive wrist or ankle strap to prevent ESD damage to the transceiver.
2. Insert the transceiver into the slot and firmly press it into place.



3. Remove the protective dust plug from the transceiver.

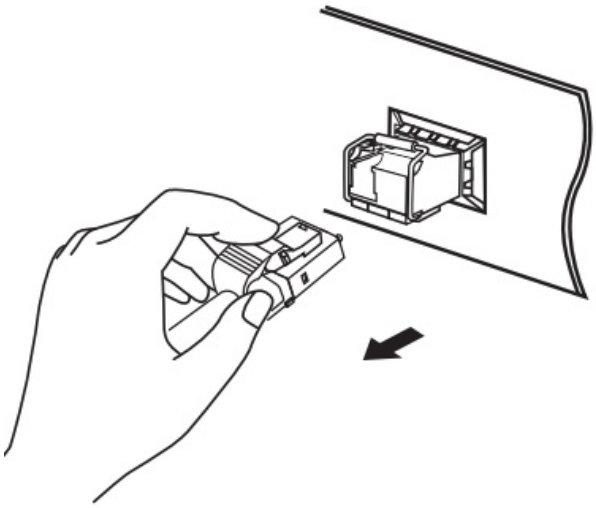


4. Plug a fiber-optic cable into the transceiver. Note that the transceiver works without any additional configuration.

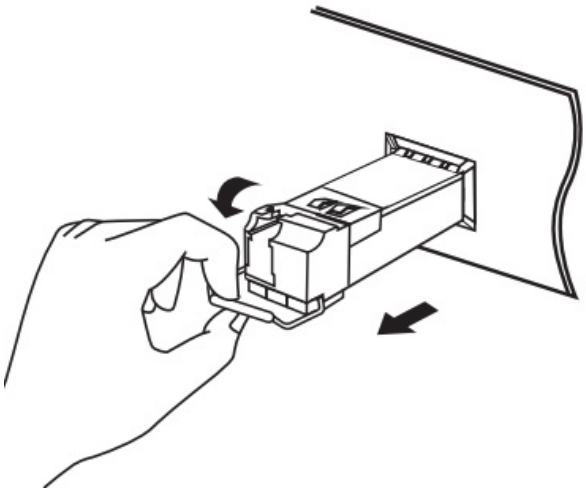


Remove the Transceiver

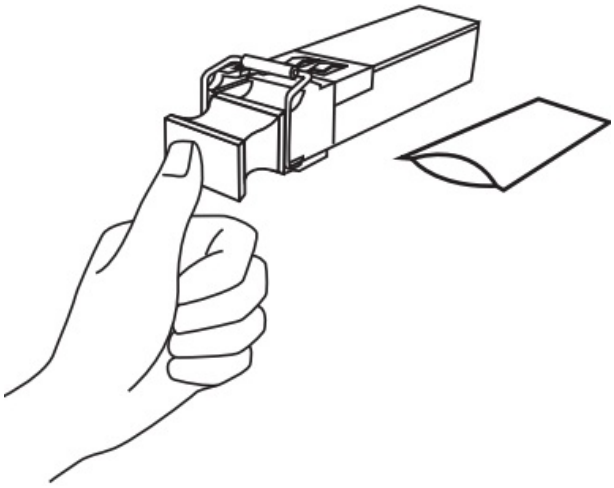
1. Wear an ESD-preventive wrist or ankle strap to prevent ESD damage to the transceiver.
2. Disconnect the network fiber-optic cable from the transceiver.



3. Pull the safety latch downwards to release the transceiver, and then pull it out from the slot.



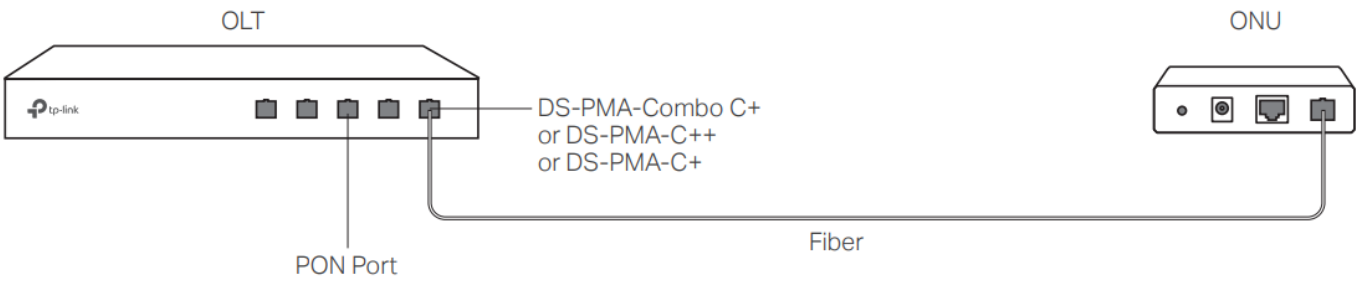
4. Reinstall the protective dust plug in the transceiver’s optical bores and place it on an antistatic mat or a static shielding bag.



Note:

1. Do not touch the output pins on the transceiver with your hand.
2. Always keep the protective dust plug on the transceiver’s optical bores until you are ready to make a connection.
    - **Caution:** DO NOT point or stare directly into the beam or the optical port of the transceiver when it is operating, as this can injure your eyesight.

Connection



Specifications

General Specifications

Normal	DS-PMA-Combo C+	DS-PMA-C++	DS-PMA-C+
Wave Length	XGS-PON: Tx: 1577 nm, Rx: 1270 nm XG-PON: Tx: 1577 nm, Rx: 1270 nm GPON: Tx: 1490 nm, Rx: 1310 nm	GPON: Tx: 1490 nm, Rx: 1310 nm	GPON: Tx: 1490 nm, Rx: 1310 nm
Standards and Protocols	ITU-T G.984.2 Amendment 2	ITU-T G.984.2 Amendment 2	ITU-T G.984.2 Amendment 2
Cable	Single-mode Fiber	Single-mode Fiber	Single-mode Fiber
Fiber Type	9/125 um Single-mode	9/125 um Single-mode	9/125 um Single-mode
Max. Cable Length	20 km	20 km	20 km
Data Rate	XGS-PON: Tx: 9953 Mbit/s, Rx: 9953 Mbit/s XG-PON: Tx: 9953 Mbit/s, Rx: 2488 Mbit/s GPON: Tx: 2488 Mbit/s, Rx: 1244 Mbit/s	GPON: Tx: 2488 Mbit/s, Rx: 1244 Mbit/s	GPON: Tx: 2488 Mbit/s, Rx: 1244 Mbit/s

Tx Power	XGS-PON: +5 dBm ~ +8 dBm XG-PON: +5 dBm ~ +8 dBm GPON: +3 dBm ~ +7 dBm	GPON: +5 dBm ~ +10 dBm	GPON: +3 dBm ~ +7 dBm
Rx Sensitivity	XGS-PON: <-29.0 dBm XG-PON: <-30.5 dBm GPON: <-32.0 dBm	GPON: <-33.0 dBm	GPON: <-32 dBm
Extinction Ratio	XGS-PON: >8.2 dB XG-PON: >8.2 dB GPON: >8.2 dB	GPON: >8.2 dB	GPON: >8.2 dB
Rx Saturation Optical Power	XGS-PON: >-8.0 dBm XG-PON: >-10.0 dBm GPON: >-12.0 dBm	GPON: >-12.0 dBm	GPON: >-12.0 dBm
Port Type	Combo PON, SC	GPON SFP, SC/UPC	GPON SFP, SC/UPC
Power Support	3.3 V (<±5%)	3.3 V (<±5%)	3.3 V (<±5%)
Safety & Emission	FCC 47 CFR Part 15, Class B CE, Class B	FCC 47 CFR Part 15, Class B CE, Class B	FCC 47 CFR Part 15, Class B CE, Class B
DDM	Yes	Yes	Yes

SFP-MSA	Yes	Yes	Yes
Hot Swappable	Yes	Yes	Yes

Safety Information

- Keep the device away from water, fire, humidity, or hot environments.
- Keep the device away from fire or hot environments. DO NOT immerse in water or any other liquid.
- Do not attempt to disassemble, repair, or modify the device.
- Avoid using this product during an electrical storm. There may be a remote risk of electric shock from lightning.
- Do not point or stare directly into the beam or the optical port of the transceiver when it is operating, as this can injure your eyesight.

EU Declaration of Conformity

-  TP-Link hereby declares that the device is in compliance with the essential requirements and other relevant provisions of Directives 2014/30/EU, 2014/35/EU, 2011/65/EU, and (EU)2015/863.
- The original EU declaration of conformity may be found at **https://www.tp-link.com/en/support/ce/**

UKCA Declaration of Conformity

- TP-Link hereby declares that the device is in compliance with the essential requirements and other relevant provisions of the Electromagnetic Compatibility Regulations 2016 and Electrical Equipment (Safety) Regulations 2016.
- The original UK declaration of conformity may be found at **https://www.tp-link.com/support/ukca/**
- For technical support and other information, please visit **https://www.tp-link.com/support** or simply scan the QR code.
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Frequently Asked Questions

- **Q: How do I know if the transceiver is properly installed?**
  - **A:** You can check if the transceiver is properly installed by ensuring it is firmly pressed into place and that all connections are secure.
- **Q: Can I use this transceiver with any type of fiber-optic cable?**
  - **A:** No, this transceiver is designed for use with single-mode fiber-optic cables only.

Documents / Resources

	tp-link DS-PMA-C++ SFP GPON Class C++ Module [pdf] Installation Guide DS-PMA-Combo C, DS-PMA-C, DS-PMA-C, DS-PMA-C SFP GPON Class C Module, DS-PMA-C, SFP GPON Class C Module, Class C Module, C Module

References

- CE Regulatory Compliance | TP-Link
- TP-Link Product Support - Wireless Networking Equipment Support
- Regulatory Compliance | TP-Link
- User Manual

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C Module, Class C Module, DS-PMA-C, DS-PMA-C SFP GPON Class C Module, DS-PMA-Combo C, SFP GPON Class C Module, TP-Link

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