Omada by tp-link

Installation Guide

10GBase-BX WDM Bi-Directional SFP+ LC Module

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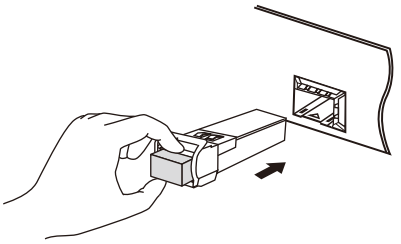
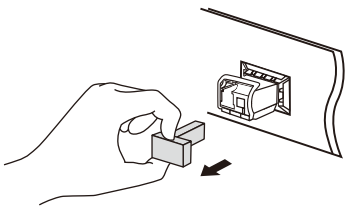
For technical support, replacement services, user guides, and more, please visit **https://support.omadanetworks.com/**, or simply scan the QR code.

Install the module

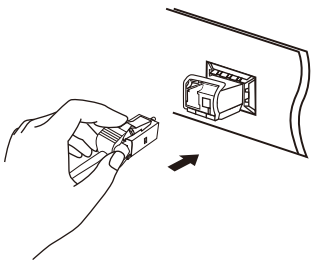
1. Wear an ESD-preventive wrist or ankle strap to prevent ESD damage to the transceiver.
2. Insert the module into the SFP+ slot and firmly press it into place.



3. Remove the protective dust plug from the module.

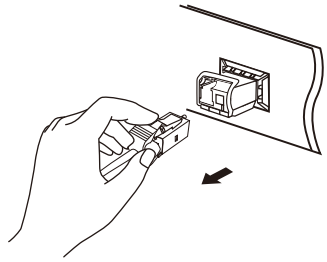


4. Plug a fiber-optic cable into the module. Note that the module works without any additional configuration.

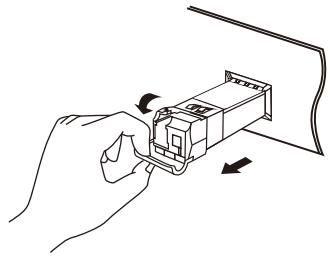


Remove the module

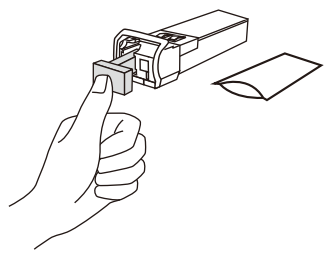
1. Wear an ESD-preventive wrist or ankle strap to prevent ESD damage to the transceiver.
2. Disconnect the network fiber-optic cable from the module.



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



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

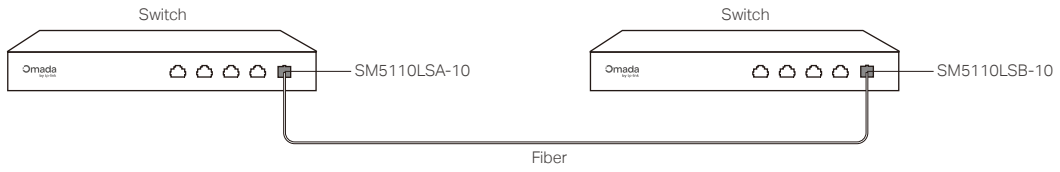


Note:
1. Do not touch the output pins on the transceiver with your hand.
2. Always keep the protective dust plug on the module's optical bores until you are ready to make a connection.

Caution:
DO NOT point or stare directly into the beam or into the optical port of the transceiver when it is operating, as this can injure your eyesight.

Connection

Use SM5110LSA-10 & SM5110LSB-10 together for fast and reliable connectivity between switches like below.



Specifications

General Specifications

Model	SM5110LSA-10	SM5110LSB-10
Wave Length	Tx: 1330 nm Rx: 1270 nm	Tx: 1270 nm Rx: 1330 nm
Standards and Protocols	IEEE 802.3ae, SFF-8431, SFF-8432, SFF-8472	
Fiber Type	9/125 um Single-mode	
Max. Cable Length	10 km	
Data Rate	10.3125 Gbps	
Port Type	LC Simplex	
Power Support	3.3 V	
Safety & Emission	FCC, CE	
DDM	Yes	
Hot Swappable	Yes	
Max. Laser Output Power	1.122 mW (0.5 dBm)	
Laser Class	Class 1	

Environmental and Physical Specifications

Operating Temperature	0˚C to 70˚C (32˚F to 158˚F)
Storage Temperature	-40˚C to 85˚C (-40˚F to 185˚F)
Operating Humidity	10% to 90% RH, Non-condensing
Storage Humidity	5% to 90% RH, Non-condensing

Compatible Products

- Omada Switches with 10-gigabit SFP+ Slots
- MC420L

Note:
The SFP modules may be incompatible with other vendors' devices. We recommend that you use only Omada SFP modules on your Omada devices.

Safety Information

- Keep the device away from water, fire, humidity or hot environments.
- Do not attempt to disassemble, repair, or modify the device. If you need service, please contact us.
- 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 into the optical port of the transceiver when it is operating, as this can injure your eyesight.
- Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation.

EU Declaration of Conformity

TP-Link hereby declares that the SFP+ LC Module 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/ce

UK Declaration of Conformity

TP-Link hereby declares that the SFP+ LC Module 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

FCC compliance information statement

Product Name: 10GBase-BX WDM Bi-Directional SFP+ LC Module
Model Number: SM5110LSA-10, SM5110LSB-10
Responsible party:
TP-Link Systems Inc.
Address: 10 Mauchly, Irvine, CA 92618
Website: https://www.tp-link.com/us/
Tel: +1 626 333 0234
Fax: +1 909 527 6804
E-mail: sales.usa@tp-link.com

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
• Reorient or relocate the receiving antenna.
• Increase the separation between the equipment and receiver.
• Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
• Consult the dealer or an experienced radio/ TV technician for help.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:
1) This device may not cause harmful interference.
2) This device must accept any interference received, including interference that may cause undesired operation.
Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

We, TP-Link Systems Inc., has determined that the equipment shown as above has been shown to comply with the applicable technical standards, FCC part 15. There is no unauthorized change is made in the equipment and the equipment is properly maintained and operated.

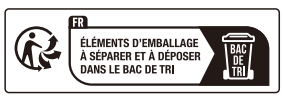
Issue Date: 2025/04/22

Продукт сертифіковано згідно с правилами системи УкрСЕПРО на відповідність вимогам нормативних документів та вимогам, що передбачені чинними законодавчими актами України.

Industry Canada Statement

CAN ICES-003 (B)/NMB-003(B)

CE Mark Warning



Explanation of the symbols on the product label

Symbols may vary from products. The label is at the bottom of the product.

Symbol	Explanation
	Class II equipment
	Class II equipment with functional earthing
	Alternating current
	Direct current
	Polarity of d.c. power connector
	For indoor use only
	Dangerous voltage
	Caution, risk of electric shock
	Energy efficiency Marking
	Protective earth
	Earth
	Frame or chassis
	Functional earthing
	Caution, hot surface
	Caution
	Operator's manual
	Stand-by
	"ON"/"OFF" (push-push)
	Fuse
N	Fuse is used in neutral N
	RECYCLING This product bears the selective sorting symbol for Waste electrical and electronic equipment (WEEE). This means that this product must be handled pursuant to European directive 2012/19/EU in order to be recycled or dismantled to minimize its impact on the environment. User has the choice to give his product to a competent recycling organization or to the retailer when he buys a new electrical or electronic equipment.
	Caution, avoid listening at high volume levels for long periods
	Disconnection, all power plugs
m	Switch of mini-gap construction
μ	Switch of micro- gap construction (for US version) Switch of micro-gap /micro-disconnection construction (for other versions except US)
ε	Switch without contact gap (Semiconductor switching device)