

# Installation Guide

1000Base-BX WDM Bi-Directional SFP Module

@2025 TP-Link 7100000326 REV4.0.0

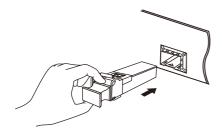


For technical support, replacement services, user guides, and more, please visit https://support.omadanetworks.com/, or simply scan the QR code.

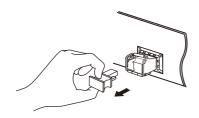


## Install the SFP

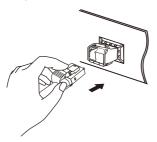
- 1. Wear an ESD-preventive wrist or ankle strap to prevent ESD damage to the transceiver.
- 2. Insert the SFP into the SFP slot and firmly press it into place.



3. Remove the protective dust plug from the SFP.

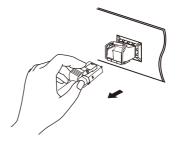


4. Plug a fiber-optic cable into the SFP. Note that the SFP works without any additional configuration.

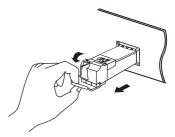


## Remove the SFP

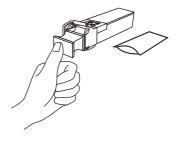
- 1. Wear an ESD-preventive wrist or ankle strap to prevent ESD damage to the transceiver.
- 2. Disconnect the network fiber-optic cable from the SFP.



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



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

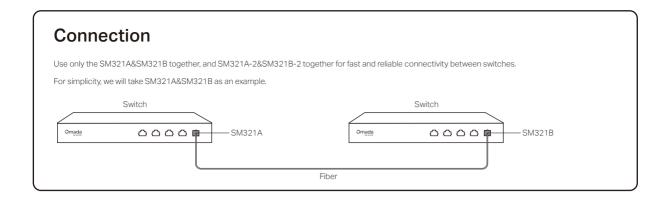


### Note

- 1. Do not touch the output pins on the transceiver with your hand.
- 2. Always keep the protective dust plug on the SFP'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.



# **Specifications**

### **General Specifications**

Model	SM321A	SM321B
Wave Length	Tx: 1550 nm	Tx: 1310 nm
	Rx: 1310 nm	Rx: 1550 nm
Standards and Protocols	IEEE 802.3z, TCP/IP	
Cable	Single-mode Fiber	
Fiber Type	9/125 um Single-mode	
Max. Cable Length	20 km	
Data Rate	1.25 Gbps	
Port Type	LC Simplex	
Power Support	3.3 V	
Safety & Emission	FCC, CE	
DDM	Yes	
SFP-MSA	Yes	
Hot Swappable	Yes	
Max. Laser Output Power	0.501 mW (-3 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	

# FCC compliance information statement

Product Name: 1000Base-BX WDM Bi-Directional SFP Module Model Number: SM321A/SM321B/SM321A-2/SM321B-2

Fax. 1) 90 92 / 20 80.

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This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the PCC 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.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

1) This device must accept any interference received, including interference

13) This device must accept any interference received, including interference

14) This device must accept any interference received, including interference

15) This device the part of the

Issue Date: 2025/04/21

EU Declaration of Conformity
TP-Link hereby declares that the SFP Module is in compliance with the essential requirements and other relevant provisions of directives 2014/30/EU, 2014/35/EU, 2011/85/EU and (EU)2015/863.
The original EU declaration of conformity may be found at https://www.tp-link.com/en/support/ce/.

UK Declaration of Conformity
TP-Link hereby declares that the SFP 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/.

- Octrety Information

   Keep the device away from water, fire, humidity or hot environments.

   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 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.



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 (A)/NMB-003(A)







Model	SM321A-2	SM321B-2
Wave Length	Tx: 1550 nm	Tx: 1310 nm
	Rx: 1310 nm	Rx: 1550 nm
Standards and Protocols	IEEE 802.3z, TCP/IP	
Cable	Single-mode Fiber	
Fiber Type	9/125 um Single-mode	
Max. Cable Length	2 km	
Data Rate	1.25 Gbps	
Port Type	LC Simplex	
Power Support	3.3 V	
Safety & Emission	FCC, CE	
DDM	Yes	
SFP-MSA	Yes	
Hot Swappable	Yes	
Max. Laser Output Power	0.501 mW (-3 dBm)	
Laser Class	Class 1	

# **Compatible Products**

- Omada Switches with gigabit SFP SlotsMC220L

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

### Е

Symbol	Explanation
	ClassII equipment
<b>\$</b>	Class II equipment with functional earthing
$\sim$	Alternating current
===	Direct current
<b>♦•</b>	Polarity of d.c. power connector
	For indoor use only
4	Dangerous voltage
1	Caution, risk of electric shock
(VI)	En ergy efficiency Marking
	Protective earth
╧	Earth
$\downarrow$	Frame or chassis
$\triangleq$	Functional earthing
<u>/111</u>	Caution, hot surface
$\triangle$	Caution
(i	Operator's manual
$\bigcirc$	Stand-by
$\bigcirc$	"ON"/"OFF" (push-push)
	Fuse
■ N	Fuse is used in neutral N



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.



 $Caution, avoid \, listening \, at \, high \, volume \, levels \, for \, long \, periods \,$ 





Switch without contact gap (Semiconductor switching device)

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)