

Installation Guide

100G QSFP28 Transceiver

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

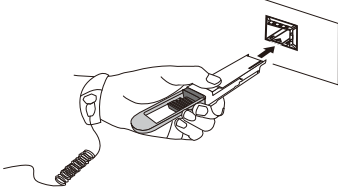


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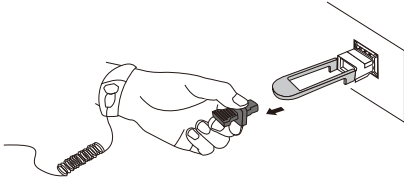
Note: The figures throughout this guide are for demonstration only. They may vary from your actual products.

Install the Transceiver

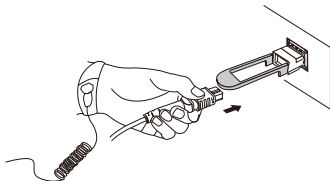
1. Wear an ESD-preventive wrist or ankle strap to prevent ESD damage to the transceiver.
2. Insert the transceiver into the slot and firmly press it into place.



3. Remove the protective dust plug from the transceiver.



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



Note:

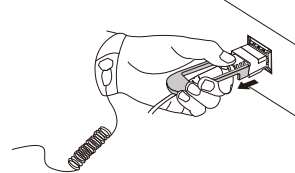
1. Do not touch the output pins on the transceiver with your hand.
2. Always keep the protective dust plug on the transceiver's optical bores until you are ready to make a connection.

Caution:

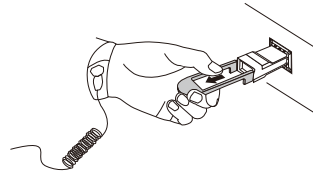
DO NOT look into the beam or the optical port of an operating transceiver. This may cause eye injury.

Remove the Transceiver

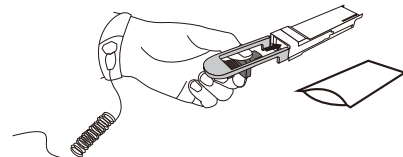
1. Wear an ESD-preventive wrist or ankle strap to prevent ESD damage to the transceiver.
2. Disconnect the network fiber-optic cable from the transceiver.



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

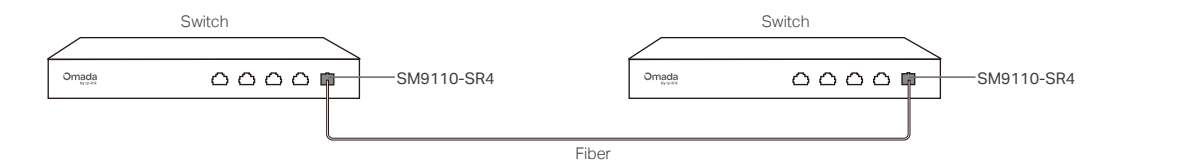


4. Reinstall the protective dust plug into the transceiver's optical bores and place it on an antistatic mat or in a static-shielding bag.



Connection

Only use the same transceiver model for fast and reliable connectivity.
To ensure device compatibility, we recommend that you use only TP-Link transceivers on your TP-Link devices.



Note: When plugged into a 100G QSFP28 slot, the module operates at 100 Gbps. In a 40G QSFP+ slot, set byte 98 on page 00h from FF to 00 to run at 40 Gbps. When plugged into a TP-Link device's 40G QSFP+ slot, the module auto-downgrades to 40 Gbps—no action required.

Specifications

Model	SM9110-SR4
Wavelength	850 nm
Standards and Protocols	IEEE 802.3bm, IEEE 802.3ba, QSFP28 MSA, SFF-8665, SFF-8636, SFF-8436, CPRI, eCPRI
Cable	MMF 50/125 μm
Max. Cable Length	70 m (OM3), 100 m (OM4) @103.125 Gbps (4×25.78 Gbps) 100 m (OM3), 150 m (OM4) @41.2 Gbps (4×10.3 Gbps)
Data Rate	103.125 Gbps (4×25.78 Gbps) 41.2 Gbps (4×10.3 Gbps)
Port Type	MTP/MPO-12
Power Support	3.3 V
Safety & Emissions	FCC, CE, RoHS
DDM	Yes
QSFP28 MSA	Yes
Hot Swappable	Yes
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	5% to 95% RH Non-condensing
Storage Humidity	5% to 95% RH Non-condensing

- 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.

EU declaration of conformity

TP-Link hereby declares that the transceiver 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/>

UK declaration of conformity

TP-Link hereby declares that the transceiver 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: Omada 100GBASE-SR4 QSFP28 Transceiver
Model Number: SM9110-SR4
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 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.

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: 2025/09/09

Industry Canada Statement

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

CE Mark Warning



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



Explanation of the symbols on the product label

Note: The product label can be found at the bottom of the product.
Symbols may vary from products.

Symbol	Explanation
	Class II equipment
	Class II equipment with functional earthing
	Alternating current
	Direct current
	Polarity of DC power connector
	For indoor use only
	Dangerous voltage
	Caution, risk of electric shock
	Energy efficiency marking
	Protective earthing
	Earth
	Frame or chassis
	Functional earthing
	Caution, hot surface
	Caution
	Operator's manual
	Stand-by
	"ON"/"OFF" (push-push)
	Fuse
	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. Users have the choice to give their product to a competent recycling organization or to the retailer when they buy 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)