TP-LINK®

Installation Guide

JetStream TXM431 Series SFP+ Transceiver

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http://www.tp-link.com

FCC STATEMENT

FC

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.

CE Mark Warning

CE

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.

⌀

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Safety Information

- When product has power button, the power button is one of the way to shut off the product; When there is no power button, the only way to completely shut off power is to disconnect the product or the power adapter from the power source.
- Don't disassemble the product, or make repairs yourself. You run the risk of electric shock and voiding the limited warranty. If you need service, please contact us.
- Avoid water and wet locations.

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Chapter 1 Introduction

1.1 Overview

TP-LINK's JetStream Series SFP+ Transceiver contains two types of transceivers: TXM431-SR and TXM431-LR. Both transceivers support 10G Ethernet, making them very suitable for business needs. TXM431-SR uses 850nm wavelength, it supports maximum transfer distance of 300 meters, while TXM431-LR uses 1310nm wavelength, with its maximum transmission distance reaching as far as 10 km, providing customers with a very flexible choice when deploying their 10G Ethernet connection. Moreover, TXM431 Series transceivers are hot-swappable, meaning that they can be added or removed without interrupting the network.

TXM431-SR：JetStream 10GBase-SR SFP+ LC Transceiver

TXM431-LR：JetStream 10GBase-LR SFP+ LC Transceiver

1.2 Features

Transceiver	Central wavelength	Interface cable	Transmission power (dBm)	Reception power (dBm)	Sensitivity (dBm)	Max transmission distance
TXM431-SR	850nm	50/125μm multimode optical fiber	-1.0(Max) -7.3(Min)	-1.0(Max) -9.9(Min)	-11.1	300m
		62.5/125um multimode optical fiber				33m
TXM431-LR	1310nm	9/125μm single-mode optical fiber	0.5(Max) -8.2(Min)	0.5(Max) -14.4(Min)	-12.6	10km

➢ Complies with IEEE802.3ae/SFF-8431 standard

➢ All the transceivers are LC connectors

- ➢ Duplex mode supported
- ➢ Hot-swappable

Chapter 2 Installation

2.1 Installing the SFP+ Transceiver

☞**Note:**

- Installing or removing the SFP+ transceiver with fiber-optic cables still attached to it may damage cables and cable connectors. Please disconnect all cables before removing or installing an SFP+ transceiver.
- Remove and insert SFP+ transceiver if necessary. Removing and installing an SFP+ transceiver frequently can shorten its service life.
- As the SFP+ transceivers are static-sensitive devices, be sure to wear an ESD wrist strap when installing or removing a transceiver. Do not touch the output pins on the transceiver with your hand.

Step 1: Wear an ESD-preventive wrist strap, and make sure the wrist strap has good skin contact and is well grounded.

Step 2: Insert the SFP+ transceiver into an SFP+ slot, as shown in Figure 1.
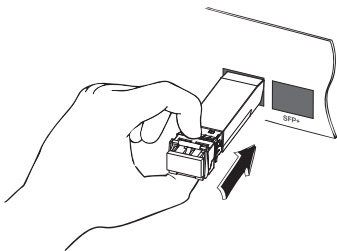

Figure 1

Step 3: Press the transceiver into the slot firmly until you feel the transceiver latch into place.
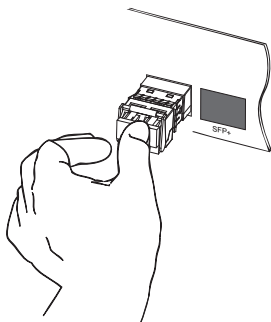
Figure 2

Step 4: Remove the dust plug from the transceiver.

☞ **Note:**

Always keep the protective dust plug on the SFP+ transceiver's optical bores until you are ready to make a connection.

Step 5: Plug fiber into the transceiver and the SFP+ transceiver can now begin operation automatically.

2.2 Removing the SFP+ Transceiver

Step 1: Wear an ESD-preventive wrist strap, and make sure the wrist strap has good skin contact and is well grounded.

Step 2: Disconnect the network's fiber-optic cable from the transceiver.

Step 3: Release the transceiver latch by pulling down the handle bar across the transceiver, then pull the transceiver out of the SFP+ slot, as shown in Figure 3. Then immediately reinstall the dust plug in the transceiver's optical bores.
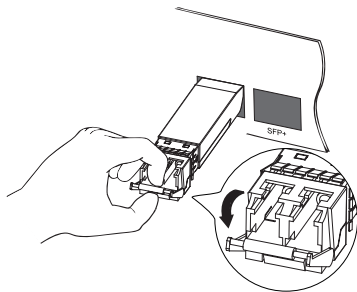
Figure 3

2.3 Safety of Laser Use

JetStream TXM431 Series SFP+ Transceiver is a Class-1 laser device.

Do not look straight at the optical port of the transceiver when it is operating. The optical fiber beam is of high energy and thus will do great harm to the retina.

☞**Note:**

Looking straight at the optical fiber beam could do great harm to your eyes.

Appendix: Specifications

Standards	IEEE 802.3ae, SFF-8431
Safety & Emissions	FCC, CE
Power supply	supplied by Switch
Operating Temp	0℃ ~ 40℃ (32℉~104℉)
Storage Temp	-40℃~70℃ (-40℉~158℉)
Operating Humidity	10% ~ 90% RH (no-condensing)
Storage Humidity	5% ~ 90% RH (no-condensing)

Technical Support

- For more troubleshooting help, go to:
  http://www.tp-link.com/en/support/faq
- To download the latest Firmware, Driver, Utility and User Guide, go to:
  http://www.tp-link.com/en/support/download
- For all other technical support, please contact us by using the following details:

Global
Tel: +86 755 2650 4400
Fee: Depending on rate of different carriers, IDD.
E-mail: support@tp-link.com
Service time: 24hrs, 7 days a week

USA/Canada
Toll Free: +1 866 225 8139
E-mail: support.usa@tp-link.com(USA)
support.ca@tp-link.com(Canada)
Service time: 24hrs, 7 days a week

Turkey
Tel: 0850 7244 488 (Turkish Service)
Fee: Depending on rate of different carriers.
E-mail: support.tr@tp-link.com
Service time: 09:00 to 21:00, 7 days a week

Ukraine
Tel: 0800 505 508
Fee: Free for Landline; Mobile: Depending on rate of different carriers
E-mail: support.ua@tp-link.com
Service time: Monday to Friday, 10:00 to 22:00

Brazil
Toll Free: 0800 608 9799 (Portuguese Service)
E-mail: suporte.br@tp-link.com
Service time: Monday to Friday, 09:00 to 20:00; Saturday, 09:00 to 15:00

Indonesia
Tel: (+62) 021 6386 1936
Fee: Depending on rate of different carriers.
E-mail: support.id@tp-link.com
Service time: Sunday to Friday, 09:00 to 12:00, 13:00 to 18:00 *Except public holidays

Australia/New Zealand
Tel: NZ 0800 87 5465 (Toll Free)
AU 1300 87 5465 (Depending on 1300 policy.)
E-mail: support.au@tp-link.com (Australia)
support.nz@tp-link.com (New Zealand)
Service time: 24hrs, 7 days a week

Germany/Austria
Tel: +49 1805 875 465 (German Service)
+49 1805 TPLINK
+43 820 820 360
Fee: Landline from Germany: 0.14EUR/min.
Landline from Austria: 0.20EUR/min.
E-mail: support.de@tp-link.com
Service time: Monday to Friday, 09:00 to 12:30 and 13:30 to 18:00. GMT+1 or GMT+2 (DST in Germany) *Except bank holidays in Hesse

Singapore
Tel: +65 6284 0493
Fee: Depending on rate of different carriers.
E-mail: support.sg@tp-link.com
Service time: 24hrs, 7 days a week

UK
Tel: +44 (0) 845 147 0017
Fee: Landline: 1p-10.5p/min, depending on the time of day. Mobile: 15p-40p/min, depending on your mobile network.
E-mail: support.uk@tp-link.com
Service time: 24hrs, 7 days a week

Italy
Tel: +39 023 051 9020
Fee: Depending on rate of different carriers.
E-mail: support.it@tp-link.com
Service time: Monday to Friday, 09:00 to 13:00; 14:00 to 18:00

Malaysia
Toll Free: 1300 88 875 465
Email: support.my@tp-link.com
Service time: 24hrs, 7 days a week

Poland
Tel: +48 (0) 801 080 618
+48 223 606 363 (if calls from mobile phone)
Fee: Depending on rate of different carriers.
E-mail: support.pl@tp-link.com
Service time: Monday to Friday, 09:00 to 17:00. GMT+1 or GMT+2 (DST)

France
Tel: 0820 800 860 (French service)
Fee: 0.118 EUR/min from France
Email: support.fr@tp-link.com
Service time: Monday to Friday, 09:00 to 18:00 *Except French Bank holidays

Switzerland
Tel: +41 (0) 848 800 998 (German Service)
Fee: 4-8 Rp/min, depending on rate of different time.
E-mail: support.ch@tp-link.com
Service time: Monday to Friday, 09:00 to 12:30 and 13:30 to 18:00. GMT+1 or GMT+2 (DST)

Russian Federation
Tel: 8 (499) 754 5560 (Moscow NO.)
8 (800) 250 5560 (Toll-free within RF)
E-mail: support.ru@tp-link.com
Service time: From 09:00 to 21:00 (Moscow time) *Except weekends and holidays in RF

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