

## NETVANTA, 1000Base-SX, LC SFP

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Documentation for ADTRAN Access and Aggregation products is available for viewing and download directly from the ADTRAN Support Community website.

Go to: <https://supportforums.adtran.com/welcome>

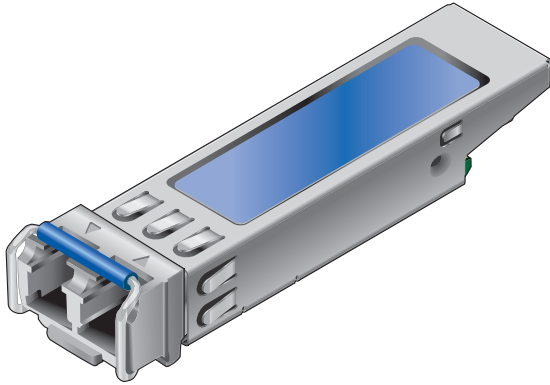
Registration is required.

ADTRAN offers training courses on our products, including customized training and courses taught at our facilities or at customer sites.

For inquiries, go to: <http://adtran.com/training>

The following related online documents and resources provide additional information for this product:

SFP/XFP/SFP+ Compatibility Matrix (online tool, go to: <http://www.adtran.com/sfp>)



## DESCRIPTION

The NETVANTA, 1000Base-SX, LC SFP plugs into ADTRAN GigE modules designed to accept SFPs. The SFP provides an optical interface to the GigE physical interface. Installed into an appropriate host module, the SFP provides a GigE interface to the supporting system.

### NOTE

To ensure compatibility, refer to the documentation provided with the host module.

The following features are supported on the SFP:

- 1000Base-SX: 850 nm, multi-mode, 2 fiber operation
- Maximum optical distances:
  - ◆ 500 meters, using 50  $\mu$ m multi-mode fiber
  - ◆ 300 meters, using 62.5  $\mu$ m multi-mode fiber

### CAUTION

Due to compliance certification requirements, only SFPs supplied by ADTRAN are to be used with ADTRAN modules. ADTRAN cannot certify system integrity with other SFPs.

## Specifications

- Optical Specifications:
  - ◆ Optical transmit level: -2.5 dBm to -9.0 dBm
  - ◆ Optical receive level: 0.0 dBm to -18.0 dBm
  - ◆ Link power budget: 9 dB
  - ◆ Optical connectors: LC

## INSTALLATION

Before installing the equipment, inspect the SFP. If damage has occurred during shipping, file a claim with the carrier, and then contact ADTRAN Customer Support. For more information, refer to the warranty.

To install the SFP into an appropriate module, complete the following steps:

### NOTE

Do not remove the protective end cap from the SFP until you are ready to connect the fiber optic cable.

1. Insert the SFP into the SFP cage on the module. Ensuring that the latch handle on the SFP is facing upward, slide the SFP all the way into the SFP cage until there is an audible “click”.

### NOTE

The latch on the SFP is for removal only. When removing the SFP, rotate the latch away from the SFP, the SFP should easily slide out of the cage.

2. Remove the end cap and connect the fiber to the SFP+.

### NOTICE

We recommend that you keep the protective end cap on whenever the transceiver optical fiber connector is not in use.

3. Continue the installation and turn-up of the host module using the instructions in the Job Aid provided with the module or other system-level documentation available online at [www.adtran.com](http://www.adtran.com).

## SAFETY AND REGULATORY COMPLIANCE

### WARNING

Read all warnings and cautions before installing or servicing this equipment.

### CAUTION

- Electrostatic Discharge (ESD) can damage electronic modules. When handling modules, wear an antistatic discharge wrist strap to prevent damage to electronic components. Place modules in antistatic packing material when transporting or storing. When working on modules, always place them on an approved antistatic mat that is electrically grounded.
- The ADTRAN system chassis frame ground terminal must be connected to an earth ground to ensure that the metal enclosure of the SFP is properly grounded via the backplane connector.

### NOTE

- This product is NRTL Listed to the applicable UL Standards.
- 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.
- Changes or modifications not expressly approved by ADTRAN could void the user's authority to operate this equipment.
- Install this product in a Restricted Access Location. This product is intended to be installed and serviced by qualified Service Personnel only.
- This product meets EU RoHS Directive 2011/65/EU and/or applicable exemptions. Refer to [www.adtran.com](http://www.adtran.com) for further information on RoHS/WEEE..



**Warranty:** ADTRAN will replace or repair this product within the warranty period if it does not meet its published specifications or fails while in service. Warranty information can be found online at [www.adtran.com/warranty](http://www.adtran.com/warranty).

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