

DESCRIPTION

The Multi-Mode Gigabit Ethernet Small Form-Factor Pluggable (SFPGM) plugs into ADTRAN GigE modules designed to accept SFPs. The SFPGM provides an optical interface to the GigE physical interface. Installed into an appropriate host module, the SFPGM provides a GigE tributary 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 SFPGM:

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

Operational Specifications

- ◆ Optical Specifications:
 - Optical transmit level: 0 dBm to -9.5 dBm
 - Optical receive level: 0 dBm to -17 dBm
 - Link power budget: 7.5 dB
 - Optical connectors: LC
- ◆ Extended Environmental Support:
 - Operational temperature range: -20°C to +85°C
 - Storage temperature range: -40°C to +100°C
 - Relative humidity to 95%, noncondensing

INSTALLATION

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

1. Inspect the SFPGM. If damaged, file a claim with the carrier and then contact ADTRAN Customer Support.
2. Remove the safety cap from the optical connectors of the SFPGM.
3. Insert the SFPGM into the receptacle on the circuit board of the host module, with the manufacturer's label facing outward. Slide the SFPGM all the way into the receptacle.
4. Use thumb and forefinger to squeeze the receptacle and SFPGM together, to ensure a proper connection.

NOTE: The latch on the SFP is for removal only.

5. Continue the installation and turn-up of the host module using the instructions in the Job Aid provided with that module, or using the Installation and Maintenance Practice (I&M), available online at www.adtran.com.

PROVISIONING

The SFPGM is not directly provisionable. To provision the SFPGM, access the menu system of the host module. For more information, refer to the Job Aid or I&M of the host module for provisioning details.



COMPLIANCE

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 SFPGM is NRTL Listed to the applicable UL standards. The SFPGM meets or exceeds all the applicable requirements of NEBS, Telcordia GR-63-CORE, and GR-1089-CORE. The SFPGM is intended for deployment in Central Office type facilities, EEEs, EECs, and locations where the NEC applies (for example, Customer Premises). Install the SFPGM in an ADTRAN product located in a restricted access location.

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.

CAUTION: *Per GR-1089-CORE the ADTRAN system that the SFP is being deployed in is designed and intended for installation as part of a Common Bonding Network (CBN). The ADTRAN system that the SFP is being deployed in is not designed nor intended for installation as part of an Isolated Bonding Network (IBN).*

Per GR-1089-CORE Section 9, the SFPGM does not have an internal DC connection between battery return and frame ground. The SFPGM can be installed in a DC-I (isolated) or DC-C (common) installation. For installations where other cards or the host system have internal connections between battery return and frame ground, the system would be intended for deployment only in a DC-C installation.

The ADTRAN system chassis frame ground terminal must be connected to an earth ground to ensure that the metal enclosure of the SFPGM is properly grounded via the backplane connector.

NOTE: *The Gigabit Ethernet port is optical and therefore is not classified as any type of port as defined in Appendix B of GR-1089-CORE Issue 4.*

The SFPGM is designed to meet the following environmental classes:

- ◆ ETSI EN 300 019-1-1 "Classification of environmental conditions; Storage," Class 1.2
- ◆ ETSI EN 300 019-1-2 "Classification of environmental conditions; Transportation," Class 2.3
- ◆ ETSI EN 300 019-1-3 "Classification of environmental conditions; Stationary use at weather-protected locations," Class 3.3

The equipment is designed to function without degradation during exposure to all test severities per Class 3.3.

The SFPGM meets the EU's RoHS Directive 2002/95/EC and/or applicable exemptions. See 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.

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