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DESCRIPTION

The OC-12 Long Reach-1 (SFP12L) plugs into ADTRAN OC-12 modules designed to accept Small Form-Factor Pluggables (SFPs). Installed into an appropriate host module, the SFP12L provides an OC-12 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 SFP12L:

- SONET OC-12 (622.08 Mb/s) 1310 nm, long-reach (LR-1), single-mode, 2-fiber operation
- 40 km maximum optical span
- Digital diagnostics available through the menu of the host module

CAUTION

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

Operational Specifications

- Optical Specifications:
 - ◆ Transmit power: -3 dBm to +2 dBm
 - ◆ Receive level: -28 dBm to -8 dBm
 - ◆ Power penalty: 1 dB
 - ◆ Optical budget: 24 dB
 - ◆ Optical connectors: LC
 - ◆ Maximum optical span: 40 km
 - ◆ Minimum span attenuation: 10 dB
- Extended Environmental Support:
 - ◆ Operational temperature range: -40°C to +65°C
 - ◆ Storage temperature range: -40°C to +100°C
 - ◆ Relative humidity to 95%, noncondensing

INSTALLATION

To install the SFP12L into an appropriate module, complete the following steps:

1. Inspect the SFP12L. If damaged, file a claim with the carrier and then contact ADTRAN Customer Service.
2. Remove the black safety cap from the optical connectors of the SFP12L.
3. Insert the SFP12L into the receptacle on the circuit board of the host module, with the manufacturer's label facing outward. Slide the SFP12L all the way into the receptacle.
4. Using thumb and forefinger, firmly squeeze the receptacle and SFP12L 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 Guide (I&M) for the host module, available online at www.adtran.com.

PROVISIONING

The SFP12L is not directly provisionable. To provision the SFP12L, access the menu system of the host module. Refer to the "Provisioning" section of the Job Aid or I&M provided with the host module for provisioning details.

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.
- Per GR-1089-CORE the ADTRAN system that this product is being deployed in is designed and intended for installation as part of a Common Bonding Network (CBN). The ADTRAN system that this product 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, this product does not have an internal DC connection between battery return and frame ground. This product 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 this product is properly grounded via the backplane connector.

NOTE

The OC-12 port(s) are optical and therefore are not classified as any type of port as defined in Appendix B of GR-1089-CORE Issue 4.

This product is NRTL Listed to the applicable UL standards. This product meets or exceeds all the applicable requirements of NEBS, Telcordia GR-63-CORE, and GR-1089-CORE. This product is intended for deployment in Central Office type facilities, EEs, EECs, and locations where the NEC applies (for example, Customer Premises). Install this product 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.

This product 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.

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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