ADTRAN®

Small Form-Factor Pluggable
OC-3 Intermediate Reach

jobAid ➕

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Product P/N: 1184543PG2

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DESCRIPTION

The OC-3 Intermediate Reach (OC-3 SFP) plugs into ADTRAN OC-3 modules designed to accept Small Form-Factor Pluggables (SFPs). Installed into an appropriate host module, the OC-3 SFP provides an OC-3 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 OC-3 SFP:

- SONET OC-3 (155.52 Mb/s) 1310 nm, intermediate-reach (IR-1), single-mode, 2-fiber operation
- 15 km maximum optical span
- Digital diagnostics available through the menus 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 level: –15 dBm to –8 dBm
  - Receive level: –28 dBm to –8 dBm
  - Power penalty: 1 dB
  - Optical budget: 12 dB
  - Optical connectors: LC
  - Maximum optical span: 15 km
  - Minimum span attenuation: 0 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

Before installing the equipment, inspect the OC-3 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 OC-3 SFP into an appropriate module, complete the following steps:

NOTE
Do not remove the protective end cap from the SFP until the fiber optic cable is ready to be connected.

1. Insert the OC-3 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. 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.

NOTICE
It is recommended that the protective end cap remain on whenever the transceiver optical fiber connector is not inserted.

PROVISIONING

The OC-3 SFP is not directly provisionable. To provision the OC-3 SFP, 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

⚠ 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-3 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, EEEs, EECs, and locations where the NEC applies (for example, Customer Premises). Install this equipment 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 OC3 IR SFP 1184543PG2 is designed to be deployed in GR-3108-CORE environmental class 2 as defined in GR-3108-CORE.

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

Technical
Publications
Carrier Network Division

CAUTION!
SUBJECT TO ELECTROSTATIC DAMAGE
OR DECREASE IN RELIABILITY
HANDLING PRECAUTIONS REQUIRED

ADTRAN CUSTOMER CARE:
From within the U.S.   1.800.726.8663
From outside the U.S. +1 256.963.8716
PRICING AND AVAILABILITY 1.800.827.0807

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