

Adtran Pluggable Optics

SFP GPON ONU

2.5 G/1.25 G, 20 km

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61442535F2-13E

P/N: 1442535F2

Quick Start

DESCRIPTION

The Small Form-Factor Pluggable (SFP) is a single-mode fiber SFP that plugs into an Adtran optical interface designed to accept SFPs. The SFP provides a single optical interface to a physical interface, and is intended for use with a Gigabit Passive Optical Network (GPON) module.

This SFP is designed for use in GPON ONU applications. When installed into an appropriate module, the SFP provides a GPON interface to the supporting system.

This SFP has a Digital Diagnostic Monitoring (DDM) function with internal calibration.

This Quick Start covers the following SFPs:

SFP	PN
SFP GPON ONU 2.5 G/1.25 G 20 km (Fixed speed is 2.5 G)	1442535F2
SFP GPON ONU 2.5 G/1.25 G 20 km (Speed is auto-negotiated)	1442535F3

INSTALLATION

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

1. Inspect the SFP. If damaged, file a claim with the carrier and then contact Adtran Customer Service.
2. Do not remove the protective dust cover from the SFP until the fiber optic cable is ready to be connected.
3. Insert the SFP into the SFP cage on the module. Ensure the manufacturer's label on the SFP is facing upward for correct installation.
4. Slide the SFP all the way into the receptacle until there is an audible "click."



CAUTION!

Due to compliance certification requirements, use only SFPs supplied by Adtran. Adtran cannot certify system integrity with other SFPs.



NOTE

The latch on the SFP is used to remove the SFP from the cage on the circuit card.



NOTE

This device should not be used in central office applications.



WARNING!

WARNING indicates a hazard which, if not avoided, could result in death, injury or serious property damage.



CAUTION!

CAUTION indicates a hazard which, if not avoided, could result in service interruption, damage to the equipment, or minor property damage.



NOTE

NOTES inform the user of additional, but important, information or features.

OPERATIONAL SPECIFICATIONS

General

- Module type: SFP
- Fiber/Copper: Fiber
 - ◆ SM/MM: Single Mode Fiber
 - ◆ Single/Dual-fiber: Single-fiber
- Optical Connector: SC/APC
- Applications: GPON ONU
- Distance: 20 km
- Digital Diagnostic Monitoring: SFF8472 Compliant

Optical

- Transmitter
 - ◆ Laser Diode Type: DFB
 - ◆ Tx Central Wavelength: 1310 nm
 - ◆ Tx Optical Power: +0.5 dBm to +5.0 dBm
 - ◆ SMSR: >35 dB
 - ◆ Extinction Ratio: >10 dB
- Receiver
 - ◆ Rx Type: APD/TIA
 - ◆ Rx Central wavelength: 1490 nm
 - ◆ Rx Optical Power: -8.0 dBm to -28.0 dBm
 - ◆ Receiver Overload: -8 dBm
 - ◆ Receiver Sensitivity: -28 dBm

Environmental

- Protected Equipment Environment (Outdoor)
 - ◆ System Ambient Operational temperature range: -40°C to +60°C
 - ◆ Storage temperature range: -40°C to +85°C
 - ◆ Relative humidity to 5 to 95%, non-condensing

SAFETY AND REGULATORY

ENGLISH



WARNING!

Read all warnings, cautions, notes and installation instructions before installing or servicing this equipment.



CAUTION!

This product contains or uses a Class 1 Laser module that complies with FDA 21 CFR 1040.10, 1040.11 and IEC 60825-1. For continued compliance with the above standards, only approved Class 1 laser modules from an Adtran approved vendor list (located on the Adtran website) should be installed in this product. Adtran cannot certify system integrity with other laser modules.



CAUTION!

- Electrostatic Discharge (ESD) can damage electronic devices. When handling devices, wear an antistatic discharge wrist strap to prevent damage to electronic components. Place devices in antistatic packing material when transporting or storing. When installing or maintaining, always place devices on an approved antistatic mat that is electrically grounded.
- This product and the host system are designed and intended for installation as part of a Common Bonding Network (CBN). This product and the host system are not designed nor intended for installation as part of an Isolated Bonding Network (IBN).
- This product's outer case may not be "electrically isolated" from other circuits. As a result, this product can only be used in systems that are installed in a DC-C (common) configuration.
- If the host system has a protective earth (PE) terminal, the PE terminal of the host system must be connected to protective earth (PE) to ensure that the exposed metal (i.e., front panels, optical modules) on the product is properly grounded.



NOTE

- This product is designed to be deployed in GR-3108-CORE environmental class 1 as defined in GR-3108-CORE.
- This product is NRTL Listed to the applicable UL Standards. The product is designed to meet the applicable requirements of Telcordia GR-63-CORE, GR-1089-CORE and GR-3108-CORE.
- 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 meets EU RoHS Directive. Refer to www.adtran.com for further information on RoHS/WEEE.

FRANÇAIS

AVERTISSEMENT!

Lisez toutes les mentions de danger et de prudence et les remarques, ainsi que la notice d'installation, avant d'effectuer l'installation ou l'entretien de cet équipement.

ATTENTION!

Ce produit contient ou utilise un module Laser de classe 1 qui est conforme avec la FDA 21 CFR 1040.10, 1040.11 et IEC 60825-1. Pour le maintien de la conformité avec les normes ci-dessus, seulement approuvé classe 1 modules laser d'un Adtran approuvés liste des fournisseurs (situé sur le site Adtran) doit être installé dans ce produit. Adtran ne peut certifier l'intégrité du système avec d'autres modules laser.

ATTENTION!

- Les décharges électrostatiques (ESD) peuvent endommager les appareils électroniques. Lors de la manipulation des appareils, portez un bracelet antistatique, afin d'éviter d'endommager les composants électroniques. Mettez les appareils dans un emballage antistatique, lors de leur transport ou de leur entreposage. Lors de leur installation ou de leur entretien, les appareils doivent toujours être placés sur un tapis antistatique homologué, qui est mis à terre.
- Ce produit et le système hôte sont conçus et destinés à être installés dans le cadre d'un réseau Bonding commun (CBN). Ce produit et le système hôte ne sont pas conçus, ni destinés à être installés dans le cadre d'un réseau de Bonding isolé (IBN).
- Le boîtier extérieur de ce produit pourrait ne pas être " isolé galvaniquement " des autres circuits. Donc ce produit peut être utilisé uniquement dans des systèmes dotés d'une configuration de retour commun d'alimentation en courant continu (c.c.-C).
- Si le système hôte est doté d'une borne de mise à la terre de protection (PE), la borne PE du système hôte doit être connectée à la mise à terre de protection (PE), afin d'assurer que les parties métalliques à découvert (panneaux frontaux, modules optiques) du produit soient correctement mis à terre.

REMARQUE

Ce produit est conforme à la directive européenne RoHS. Reportez-vous à www.adtran.com pour de plus amples renseignements sur RoHS/WEEE.

DEUTSCH

WARNUNG!

Lesen Sie alle Warnungen, Gefahrenhinweise, Anmerkungen und Installationsanweisungen bevor Sie dieses Gerät installieren oder warten.

VORSICHT!

Das Produkt enthält oder verwendet Klasse 1 Laser-Module, die mit FDA 21 CFR 1040.10, 1040.11 und IEC 60825-1 erfüllen. Damit die obigen Richtlinien auch in Zukunft eingehalten werden können, dürfen ausschließlich Klasse 1 Lasermodule von einem von Adtran zugelassenen Anbieter in dem Produkt installiert werden (siehe Website von Adtran). Adtran garantiert nicht für die Systemintegrität bei anderen Lasermodulen.

VORSICHT!

- Elektrostatische Entladung (ESD) kann elektronische Geräte beschädigen. Tragen Sie bei der Handhabung von Geräten ein Antistatik-Armband mit Erdungskabel, um Schäden an elektronischen Komponenten zu vermeiden. Während des Transports oder bei der Lagerung müssen Geräte in antistatischem Verpackungsmaterial gelegt werden. Geräte bei der Installation oder Wartung immer auf einer zugelassenen antistatischen, elektrisch geerdeten Matte stellen.
- Dieses Produkt und das Host-System ist entworfen und für die Installation als Teil einer gemeinsamen Bonding Network (CBN) vorgesehen. Dieses Produkt und das Host-System ist nicht für die Installation als Teil eines isolierten Bonding Network (IBN) bestimmt sind.
- Das äußere Gehäuse dieses Produktes mag nicht von anderen Stromkreisen "elektrisch isoliert" sein. Deshalb kann dieses Produkt nur in Systemen verwendet werden, die in einer gemeinsamen Gleichstrom-Rücklauf-Konfiguration installiert sind.
- Falls das Host-System über einen Schutzleiteranschluss (PE) verfügt, muss der PE-Anschluss des Host-Systems mit dem Schutzleiteranschluss (PE) verbunden werden, um sicherzustellen, dass das freiliegende Metall (d. h. Frontblenden, Optikmodule) am Produkt ordnungsgemäß geerdet ist.

HINWEIS

Dieses Produkt erfüllt die EU RoHS Richtlinie. Sie www.adtran.com für ausführlichere Informationen zu RoHS/WEEE.

Documentation for Adtran Network Solutions 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 online documents and resources provide additional information for this product:

Adtran Pluggable Optics Compatibility Matrix
(online tool, go to: <http://www.adtran.com/pluggableoptics>)

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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