

GPON ONU SFP C+

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Variants

1.25G T1310/R1490nm 20km

Details

The **GPON ONU SFP Transceiver** is a compact and high-performance optical module designed for GPON access networks. It supports bi-directional communication over a single optical fiber, making it ideal for FTTH, FTTB, ISP, telecom, and enterprise GPON deployments.

Featuring a **1310nm DFB burst-mode transmitter** and a **1490nm APD receiver**, this module delivers reliable optical performance, low power consumption, and excellent compatibility with GPON OLT systems.

Upstream Rate

1.244 Gbps

Downstream Rate

2.488 Gbps

Distance

20 km

Connector

SC/APC

Key Features

? Single Fiber Bi-Directional Communication

? 1.244Gbps Upstream & 2.488Gbps Downstream

? SC/APC Optical Interface

? 1310nm DFB Burst Mode Transmitter

? 1490nm APD Receiver

? Digital Diagnostic Monitoring (DDM)

? Low EMI & Strong ESD Protection

? Wide Operating Temperature Range

Technical Specifications

Parameter	Specification
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Product Type	GPON ONU SFP Transceiver
Form Factor	SFP
Upstream Data Rate	1.244 Gbps
Downstream Data Rate	2.488 Gbps
Transmitter Wavelength	1310 nm
Receiver Wavelength	1490 nm
Optical Connector	SC/APC
Transmission Distance	Up to 20 km
Power Supply	Single 3.3V
Operating Temperature	-10°C to +85°C
DDM Support	Supported

Standards & Compliance

SFP MSA Compliant

SFF-8472 (DDM)

ITU-T G.984.5 Class B+ / C+

IEC 60825 Class 1 Laser Safety

RoHS Compliant

Applications

FTTH Networks

ISP GPON Deployments

Telecom Access Networks

Point-to-Multipoint GPON Networks

Enterprise Fiber Access

OLT to ONU Connectivity

Note:

This GPON ONU SFP module supports GPON network deployment with asymmetric transmission rates of 1.244Gbps upstream and 2.488Gbps downstream. Please verify OLT compatibility before deployment.