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

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.

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