

FiberHome ORTH001359 Datasheet



FiberHome GPON OLT C++ SFP Transceiver Module

ORTH001359

The FiberHome ORTH001359 GPON-OLT-C++ is a high-performance class C++ GPON OLT SFP transceiver designed for point-to-multipoint (P2MP) Passive Optical Network (GPON) application. It is designed for 2488 Mbps downstream and 1244 Mbps upstream duplex data link transmission, high-speed burst mode TDM receiver/transmitters used. It is supplied in the SFP package with a single SC/UPC receptacle connector. It can fully support the GPON OLT application specified by the ITU-T G.984.2 class C++ specifications. This GPON OLT transceiver module consists of 1490nm continuous-mode 2.5Gbps DFB transmitter, 1310nm burst-mode 1.25Gbps APD receiver, Preamplifier and WDM filter in a high-integrated optical sub-assembly. It is a Class 1 laser product comply with the IEC 60825-1 and IEC 60825-2, and it is ROHS6 compliant.

Features

- Support ITU-T G.984.2 GPON OLT C++ application
- Single fiber bi-directional data links with asymmetric 2.488Gbps Tx and 1.244Gbps Rx
- 1490nm continuous-mode transmitter with DFB LD
- 1310nm burst-mode receiver with APD-TIA
- 2-wire interface for integrated digital diagnostic Monitoring
- SFP package with SC/UPC receptacle optical interface
- Single +3.3V power supply
- RoHS6 Compliant

Specification

- Product Series: GPON OLT
- Part Number: ORTH001359
- Form Factor: SFP
- Data Rate: 2.5Gbps-TX/1.25Gbps-RX
- Wavelength: 1490nm-TX/1310nm-RX
- Fiber Type: SMF
- Max Distance: Class C++ (20km)
- Optical Components: DFB/APD
- Transmitter Power: 4.5 ~ 10 dBm
- Extinction ratio: > 8.2 dB
- Receiver Sensitivity: < -30 dBm
- Receiver Overload: > -12 dBm
- Connector: SC Simplex
- Digital Diagnostic Monitoring: Yes
- Operating Temperature: 0°C to 70°C
- Storage Temperature: -40°C to 85°C
- Weight: 0.03 kg
- Application: GPON OLT Class C+ application, FTTX, FTTH, WDM Broadband Access
- Compliance: IEC/EN 61000-4-2, IEC-60825, FDA 21CFR 1040.10 and 1040.11, RoHS

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