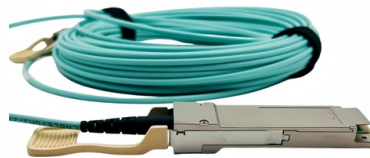


GPON optical module parameters



AI Overview

GPON optical modules are defined by key parameters including transmission power, reception sensitivity, bias current, operating temperature, and power supply voltage, with class B+ and C+ modules supporting 1.25 Gbps upstream and 2.5 Gbps downstream rates.

Key Technical Parameters

1. Transmission Power (Tx Power)

- Defines the optical power emitted by the module.
- Typical values for GPON OLT modules: +0.5 dBm to +5 dBm for class B+, +2 dBm to +7 dBm for class C+ .
- Critical for ensuring sufficient signal reaches ONUs over the fiber network.

2. Reception Sensitivity (Rx Sensitivity)

- Minimum optical power required for proper signal reception.
- Class B+ modules: around -28 dBm, Class C+ modules: around -31 dBm .
- Determines the maximum reach and splitting ratio of the PON network.

3. Overload Optical Power

- Maximum optical power the receiver can tolerate without errors.
- Typically -8 dBm to 0 dBm, depending on module class .

4. Bias Current

- Current applied to the laser diode to maintain proper operation.

- Monitored to detect laser degradation or failure .

5. Operating Temperature

Article Content

GPON OLT C+ Optical Module Spec Sheet

Features & Benefits Supports ITU-T G.984.2 GPON OLT C+ application Single fiber bi-directional data links with symmetric

System Management Configuration, Cisco Catalyst PON Series

GPON System Optical Parameter Detection provides information about optical parameter diagnosis and the GPON

ITU-T Rec. G.984.2 (08/2019) Gigabit-capable passive optical

This Recommendation proposes the physical layer requirements and specifications for the PMD layer of a gigabit-capable passive

GPON Technology Tutorial

GPON (Gigabit Passive Optical Network) technology is based on the latest generation of broadband passive optical

Huawei PON SFP Modules | GPON XG-PON XGS-PON & 50G-PON

These modules support transmission distances up to 60 km, provide excellent optical budgets, and are optimized for

Optical-Module Parameter Inquiry and Alarm Configuration

Browses all parameters of optical module including the transmitting optical power, the reception optical power, the temperature, the

Presentation Title

Introduction TraceSpan has for over 18 years been in the business of providing non-intrusive access troubleshooting and analysis

GPON hardware: your questions answered

How does GPON work? Here's an infographic of GPON technology at work: single line of into a splitter. The splitter contains glass

DS-PMA-C+ | SFP GPON Class C+ Module

SFP GPON Class C+ Module Single-fiber SFP GPON Class C+ Module Hot-Pluggable with maximum flexibility Supports Digital

Gigabit Passive Optical Networks (GPON) Fundamentals

GPON is abbreviation for Gigabit Passive Optical Networks which is defined series G.984.1 through G.984.6 by ITU-T

Passive optical network

Passive optical network A fiber optic cable assembly with SC APC connectors, as commonly used to link

Configuring Attributes of a GPON Interface

To enable the router to communicate with an upstream optical line terminal (OLT), you must correctly configure

Optical-Module Parameter Inquiry and Alarm Configuration

The parameters of optical module include the light transmission power, the light reception power, the temperature, the power-supply

GPON Optical Modules

Ensure that the optical power is not overloaded. Otherwise, the optical module may be burnt. In practice, the maximum upstream

PON Transceiver Modules Data Sheet | FS

Digital optical monitoring (DOM) support is also present to allow access to real-time operating parameters. It is fully

GPON ONU SFP Class C+ 20km DDM SC SMF Optical Transceiver Module ...

Description The GPON ONU SFP transceiver provides an asymmetric 1.244Gbps upstream and 2.488Gbps downstream, reaching a

PON Module Parameters Guide: How to Choose the Best GPON

Discover key PON module parameters for selecting the best GPON and EPON modules. Understand their impact on

GPON Optical Modules

Pluggable Module Adaptation Solution Pluggable Module Specifications FE SFP/eSFP Optical Modules GE eSFP Optical Modules

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