

Huawei GPON optical module model



Overview

Huawei PON SFP Modules | GPON XG-PON XGS-PON & 50G-PON Huawei PON SFP modules are carrier-grade optical transceivers designed for GPON XG-PON XGS-PON & 50G.

Key Takeaways

Huawei GPON optical modules are pluggable transceivers designed for GPON, XG-PON, XGS-PON, and 50G-PON networks, available in Class B+, C+, C++ and D variants, supporting high-speed fiber connectivity for FTTH and enterprise networks.

Huawei GPON optical modules, also known as GPON SFP transceivers, convert electrical signals into optical signals over fiber optic cables, enabling high-speed broadband access in Gigabit Passive Optical Networks (GPON) and next-generation PON networks like XG-PON, XGS-PON, and 50G-PON . These modules are widely used by ISPs, telecom operators, and enterprise networks for Fiber-to-the-Home (FTTH) deployments .

Module Classes and Performance

Huawei GPON modules are categorized into performance classes:



- Class B+: Entry-level module with a minimum optical budget of 29.5 dB, supporting up to 20 km over single-mode fiber. It operates at 1490 nm downstream and 1310 nm upstream using a DFB laser and APD photodiode receiver. Supports upstream 1.244 Gbps and downstream 2.488 Gbps . B+ modules are less recommended due to lower performance and higher fault rates .
 - Class C+: Standard performance module with higher receiver sensitivity and optical budget than B+, suitable for most Huawei OLT boards like MA5600T and MA5800 (GPBD, GPFD, GPUF, GPSF, GPHF), .
 - Class C++: High-performance module with the best optical sensitivity and split ratio, ideal for demanding deployments. It is more expensive and used when maximum network performance is required .
 - Class D: Advanced modules for future-proof networks, supporting higher bandwidth and longer distances, often used in XG-PON or XGS-PON upgrades .
- Module Types and Compatibility

Huawei offers modules for different PON technologies:

- GPON SFP: Standard GPON access, compatible with MA5800 boards like GPHF, GPSF, GPLF, GPUF .
- XG-PON Optical Module: Provides 10-Gigabit downstream access, compatible with boards like XGHD, XGLD, XGSF, XGLF .
- XGS-PON Optical Module (XFP/SFP+): Symmetric 10-Gigabit access, compatible with TWED, XSHF, XSHD, TWHD boards .
- XG-PON & GPON Combo Module: Supports both GPON and XG-PON services for seamless migration to next-generation networks .

Key Features

- Single SC fiber interface for easy deployment .
- Supports DDM/DOM diagnostics for monitoring optical power and module health .
- Transmission distance: Up to 60 km depending on class and optical budget .
- High bandwidth: Supports applications like high-speed internet, video streaming, and VoIP .
- Scalability: A single OLT can connect to multiple ONTs, allowing network expansion .
- Security: Fiber optic transmission reduces susceptibility to interference compared to copper networks .

Summary

Huawei GPON optical modules provide reliable, cost-effective, and scalable fiber connectivity. Selection depends on network requirements, OLT board compatibility, desired optical budget, and performance class. B+ modules are suitable for basic deployments, C+ for standard networks, and C++ for high-performance or long-distance applications. Combo modules facilitate smooth migration to XG-PON or XGS-PON networks, ensuring future-ready broadband infrastructure .

Article Content

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GPON Optical Modules

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

GPON Optical Modules

This module can only be used on a device running V600R024C10 or a later version.

Huawei GPON Optical Module

An XG-PON optical module is connected to one SC optical fiber to provide the 10-Gigabit-capable passive optical

H87MMA5671A2 Huawei GPON CLASS B+ SFP module | EDGE

H87MMA5671A2 Huawei GPON CLASS B+ SFP compatible module (PN:03031QHU) is fiber optic transceiver

Huawei EA5801E-GP08-GP16-GP04-Optical Access

Huawei OptiXaccess EA5801E is a box-shaped Optical Line Terminal (OLT) with Gigabit Passive Optical

GPON ONU SFP Optical Module

Table 1-18 GPON ONU-SFP-SMF-1490nm (rx)/1310nm (tx)-20km-industry specifications

Optical Access

Based on PON technology, passive all-optical network access solutions enable access by any media,

Huawei GPON Optical Module

Huawei GPON boards include GPON, XG-PON, XGS-PON, XG-PON&GPON Combo, XGS-PON&GPON Combo

Huawei GPON GPHF Board 16 PON Ports Interface Card with B+ C

The Huawei SmartAX EA5800 16-port GPON OLT Interface Board, model GPHF, marks a new frontier in high-speed, high-efficiency

OLT

Building a network that supports unified access for home, enterprise, and mobile back-haul services can reduce network construction

Huawei ONT Products Datasheet

Overview ONT (Optical network terminal), is a product in the XPON network access solution. Huawei EchoLife series provides

MA5800 | Access | OLT | FTTH | Huawei Enterprise

The MA5800 multi-service access device is a 4K/8K/VR-ready OLT in the gigabit ultra-broadband era. It

GPON/EPON Optical Modules

This document describes hardware components of the AR, including the cabinet, chassis, power supply facilities, fan modules, cards,

16 Ports GPHF Interface Board PON GPON Card with SFP Modules

The configuration process was handled through the standard Huawei OLT management interface, which automatically detected the

Huawei H903GPHF MA5800 GPON Board Price and Datasheet

Buy Huawei MA5800 GPON board H903GPHF, configure H903GPHF with B+ C+ or C++ optical module, with 9600

ONU

Huawei OptiXstar B866 is a master FTTR unit (MFU) launched by Huawei. It supports XG-PON and 10G EPON technologies to

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Huawei intelligent GPON and Wi-Fi 6 routing-type ONT

The Huawei OptiXstar EG8145X6-10 is an intelligent GPON and Wi-Fi routing-type ONT. It uses the GPON Wi-Fi technology to

GPON&EPON Optical Modules

FE SFP&eSFP Optical Modules GE eSFP Optical Modules GE SFP Copper Modules GPON&EPON Optical Modules SFP-GPON

GPON ONU SFP Optical Module

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Huawei GPON & 10GPON ONT/ONU & Huawei OLT

Telecomate offers a wide range of Huawei GPON/10GPON ONT/ONU and Huawei OLT products, services and for companies

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Huawei GPON SFP B+ C+ C++ Introduction and Comparison

It converts electrical signals into optical signals over fiber optic cables in the GPON network. Huawei GPON module

Huawei Original Om5052, Hsc, Gpon-Olt-Class C

Huawei GPON OLT C++ SFP is inserted in service board like GPFD GPBD GPBH GPHF etc and provides

Huawei GPON SFP Module Overview | PDF | Decibel | Optical Fiber

The document provides a detailed description of various optical and electrical modules, including types, specifications, and connector

Huawei EA5801E-GP08-GP16-GP04-Optical Access-Huawei Enterprise

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SFP XG-PON&GPON-OLT Class C+ Module SFP for

Huawei CGHF is a 16-port XG-PON and GPON Combo OLT interface board with XG-PON & GPON

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