

What type of optical module does Huawei OLT use



Article Overview

Huawei OLT optical modules, such as the GPON Class C+ HSC, are high-performance SFP-based transceivers designed for seamless integration with Huawei OLT systems, supporting long-distance GPON deployments.

Overview of Huawei OLT Optical Modules

Huawei OLT optical modules are plug-in transceivers used in GPON fiber access networks. A common example is the GPON OLT Class C+ HSC module, which supports transmission distances of up to 40 km, offers high optical power, and superior receiver sensitivity. These modules are fully compliant with ITU-T G.984.2 Class C+ specifications and are compatible with Huawei OLT equipment such as MA5800, MA5680T, and MA5600T. They are optimized for high-density FTTH, FTTB, and other PON deployments, ensuring stable performance in demanding network environments .

Key Specifications

- Module Type: SFP-based GPON transceiver
- Transmission Distance: Up to 40 km
- Optical Power: High transmit power with superior receiver sensitivity
- Standards Compliance: ITU-T G.984.2 Class C+
- Compatibility: Huawei MA5800, MA5680T, MA5600T, and similar OLTs
- Deployment Scenarios: FTTH, FTTB, high-density PON networks...

Article Content

Oct 10, 2025

Optical Access

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

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Types of Optical Modules

Multimode optical modules are used with multimode fibers. Multimode fibers have lower transmission performance than single-mode

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The Ultimate Guide to the Best SFP Modules for Huawei and ZTE

This guide provides a comprehensive, data-driven analysis of the best SFP modules for Huawei and ZTE OLTs, dissecting their

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Understanding Optical Modules

This document explains optical modules, their types, and applications, providing a comprehensive understanding of their functionality

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Optical Access

The Huawei OptiXaccess EA5801S-FL16 is a compact outdoor blade OLT. It provides 16 Flex-PON ports to support FTTH coverage

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Understanding Huawei OLT solutions: Key Features and Benefits for ...

Using Gigabit Passive Optical Network (GPON) or Passive Optical Network(10G-PON) technology, Huawei OLTs

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What Is an Optical Module

An optical module is a device for converting electrical signals to optical signals and vice versa, widely used in telecommunications

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Huawei ONT Products Overview (OLT vs. ONU vs. ONT)

ONT products are only a part of the family. Huawei ONT products series is the EchoLife Series. Huawei ONT

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Huawei SFP Module Review: Real-World Performance on My OLT

A detailed review confirms the huawei sfp module offers strong compatibility, reliable performance exceeding 8 Gbps, seamless plug

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Introduction And Comparison Of Huawei MA5800 Series OLT

It is positioned as the next-generation OLT for NG-PON. Providing GPON, 10G GPON (including XG-PON and XGS-PON), P2PGE,

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Optical Modules for Huawei S Series Switches

A switch must use optical or copper modules that have been certified for use on Huawei switches. Non-certified optical or copper

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SmartAX MA5800 Datasheet

The industry's first 40 Gbit/s-capacity Next-Generation Optical Line Terminal (NG-OLT). Huawei's SmartAX MA5800 multiple-service

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WHAT IS AN OPTICAL MODULE AND ITS FAQS (V200)

An optical module works at the physical layer of the OSI model and is one of the core components in the fiber communication

Mar 18, 2026

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

Huawei OptiXaccess EA5801E-GP16 is a compact and low-density OLT that carries all services over a single fiber network,

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Understanding Optical Modules

Understanding Optical Modules Optical Module Appearance and Structure Types of Optical Modules Optical Module Terms Rules for

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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-PON

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Optical line termination

An optical line termination (OLT), also called an optical line terminal, is a device which serves as the service provider endpoint of a

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Understanding Optical Modules

The transmit power of a long-distance optical module is often larger than its overload power. Therefore, when using such optical

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

Huawei CGHF is a 16-port XG-PON and GPON Combo OLT interface board with XG-PON & GPON C+/N2a Optical Module. It is

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All-optical Access Platform OLT

All-optical Access Platform OLT SmartAXMA5800 Best OLT Platform in the Gigabit Ultra-broadband Era The MA5800 series multi

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Understanding Optical Modules

If an optical module is installed in a running device, you can run the display transceiver command to view parameters of the optical

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Types of Optical Modules

Therefore, optical modules are also classified into single-mode and multimode modules to support different optical fibers. Single

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OptiXaccess MA5801S (Blade OLT)

Rapid deployment of general coverage and low density areas: In national broadband coverage scenarios, remote areas have low

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What is OLT? The Ultimate Guide to Optical Line Terminals

Explore what an OLT (Optical Line Terminal) is, its role in FTTH networks, and a detailed comparison between market

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Understanding Optical Modules

10GE SFP+ Copper Modules Accessories Understanding Optical Modules What Is an Optical Module Types of Optical Modules

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OM5270S-D2SW Huawei compatible XGSPON & GPON OLT module

Huawei compatible OM5270S-D2SW is XGSPON & GPON OLT SFP transceiver, operating over Single-Mode Fiber (MMF) optical

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What are OLT Products with Components, Benefits, and Drawbacks?

Optical line terminals, OLTs, are a type of hardware device that serves as the terminal point for passive optical

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MA5801 | OLT | FTTH | Huawei Enterprise

The MA5801 series OLT is a compact and low-density box-shaped OLT. It provides multiple fiber to the home (FTTH) solutions to

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Displaying Optical Module Information

Run the display transceiver diagnosis interface [interface-type interface-number] command to view diagnostic information about a

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Huawei SmartAX EA5800 Series OLT | Huawei Enterprise

The SmartAX EA5800 multi-service access device is an intelligent distributed aggregation OLT platform

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Understanding Huawei OLT ONT Optical Module Temperature

Huawei's ONT (Optical Network Terminal) optical modules, designed for their OLT systems, demonstrate exceptional engineering –

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What Is an Optical Module and Its FAQs (V300)

There are various types of optical modules, and their appearances and structures are different. However, the basic

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Fundamentals of an Optical Module

Fundamentals of an Optical Module As an important part of fiber-optic communication, an optical module is a photoelectric converter

Contact Us

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