How much does an OLT 10 Gigabit optical module cost



Overview

Complete range of 10G EPON Optical Modules (IEEE 802.3av). Shop Symmetric (10G/10G) and Asymmetric (10G/1G) OLTs and ONUs.

Key Takeaways

A 10G OLT optical module typically costs between $10 and $300, depending on type, brand, and transmission distance.

Price Range and Factors

The cost of a 10G optical module for an OLT varies widely. Standard 10G SFP+ modules generally range from $10 to $300, with lower prices for short-range SR modules and higher prices for long-range LR modules due to single-mode optics and stricter performance requirements. Branded modules from major vendors often cost significantly more than compatible third-party options because of support contracts and vendor lock-in strategies.

10G EPON OLT modules are available in SFP+ and XFP form factors. SFP+ modules are the modern standard for high-density 10G PON line cards, while XFP modules are used in legacy or chassis-based OLT systems. Prices for these modules are influenced by optical power class (e.g., PR30, PR40), temperature rating (commercial vs. industrial), and the number of users supported per port.



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Practical Considerations

Transmission distance: Short-range modules (up to a few hundred meters) are cheaper, while long-range modules (up to 20 km or more) cost more due to higher optical power and tighter tolerances. Compatibility: Modules must match the OLT vendor and model; some third-party modules are compatible but may require careful selection to avoid network issues. Environmental rating: Industrial temperature modules (-40°C to +85°C) are more expensive than standard commercial modules.

Deployment type: Symmetric 10G/10G or asymmetric 10G/1G networks may affect module choice and cost. In summary, for most enterprise or ISP deployments, expect to pay roughly $50–$200 per 10G OLT module for reliable, compatible SFP+ or XFP modules, with higher-end modules for extended distances or industrial environments.

Article Content

10G EPON Optical Transceivers | OLT & ONU | SFP+ & XFP

Complete range of 10G EPON Optical Modules (IEEE 802.3av). Shop Symmetric (10G/10G) and Asymmetric (10G/1G) OLTs and ONUs. Available in SFP+ and XFP form factors, covering PR30,

10G EPON OLT/ONU SFP+/XFP Transceiver Modules | FiberMall

A 10G EPON ONU transceiver module is a component used in Optical Network Units (ONUs) that enables data transmission in 10 Gigabit Ethernet Passive Optical Networks (10G EPONs).

Optical Transceiver Pricing: Cost Ranges by Speed and Type

This article compares typical cost ranges across speeds and transceiver types, explains why prices vary, and gives practical guidance for choosing the right optics for a given budget and performance

10G XGSPON OLT/ONU Transceiver Modules | FiberMall

Passive optical networks such as XGSPON provide up to 10 Gbps upload and download speeds, ideal for 4K/8K video streaming, cloud computing, telehealth, and other high-bandwidth applications.

10G SFP+ Optical Transceivers | Transceiver Module

Click to get your 10G SFP+ transceiver modules from nearby warehouses. 30-Day Free Return. Trusted by 260K+ Enterprise Users.

Low Price 10G GPON OLT SFP Transceiver HW Optical Module

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Shop high-quality 10G GPON OLT SFP transceivers for reliable fiber optic communications. Find durable, efficient, and affordable options from trusted suppliers.

Cisco XGS-PON OLT SFP+ Module

Product Highlights: For Data Networking, Optical Network 1 x SC/UPC 10GBase X Network Show more Product Condition: New and Factory Fresh Limited

10G SFP Price Guide: How Much Does a 10G SFP Module Cost

The price of a 10G SFP+ module typically ranges from low double digits to several hundred dollars, and in some cases even higher. This wide gap is not random—it is mainly driven by transmission

NOKIA Compatible XGSPON OLT SFP+ 1577nm-TX/1270nm-RX

The NOKIA compatible 9.953G-TX/9.953G-RX & 9.953G-TX/2.488G-RX transceiver module is specifically designed for 10-Gigabit-capable Passive Optical Network (XGSPON) system. It

OLT Devices| High-Quality Optical Line Terminals

Explore our range of high-quality GPON, EPON, and XG (S)PON OLT products. Find the perfect Optical Line Terminal solutions for your network needs.

Fiber XGS/XG/G-PON OLT

An eight-port optical line terminal that can deliver 10 Gbps uplink/downlink speeds to over 2,000 subscribers.

Optical line terminals

At the heart of a point-to-multi-point or passive optical network (PON) is the optical line terminal (OLT). Modern OLTs offer communication service providers (CSP) the ability to launch multigigabit services

Active Optical Module Market Research Report 2034

Active Optical Module market valued at $10.7 billion in 2025, projected to reach $35.6 billion by 2034 at 14.2% CAGR, driven by data center expansion and 5G deployment.

10G SFP+ Optical Transceivers | Transceiver Module

FS 10GbE SFP+ module solutions provide a wide variety of 10 Gigabit Ethernet connectivity options for data centers, enterprise wiring closets, Internet Service Providers (ISPs) applications. Click to get

Meet Escalating Broadband Demand with Fiber to the Home

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Service providers are looking to Passive Optical Network (PON) technologies to deliver these gigabit services. This document outlines the key architectural components of fiber to the home (FTTH)

EPON, GPON, 10G EPON, 10G GPON OLT: How do They Work?

Such as 8-port GPON OLT interface board (with pluggable ClassB + optical module) requires ODN attenuation within -28db, 8-port GPON OLT interface board (with pluggable ClassC +

Cisco GPON SFP Data Sheet

Over the years, fiber-based access has proven to be a cost-effective way to reach customer premises to deliver managed business and residential services. Ethernet or Passive Optical Network (PON)

Unlocking the Potential of GPON OLT: A Comprehensive Guide

Discover the GPON OLT''s capabilities in managing fiber internet services effectively. This guide covers everything from optical line terminals to transceivers.

Contact Us

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Website: https://bagyou.es
Technical inquiry: https://bagyou.es/project-enquiry.html

This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

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