

How much does an XGPON optical module cost



Overview

GPON/EPON/10G XGSPON/XGPON Transceiver Modules | FiberMallFiberMall offers PON Transceiver Modules using bidirectional transmission on a single fiber, incl.

Key Takeaways

XGPON/XGS-PON optical modules typically cost between \$80 and \$250 per SFP+ transceiver, depending on vendor, compatibility, and features.

Price Overview

Amazon listings for XGS-PON/XGPON SFP+ transceivers show prices around \$120–\$200 for single modules compatible with Huawei, ZTE, Ubiquiti, and Mikrotik equipment. Specialized suppliers like HeyOptics offer XG-PON OLT SFP+ modules with bulk pricing options, often starting at \$150–\$250 per unit, with additional discounts for larger orders. Combo modules supporting both GPON and XGS-PON (dual-mode) can cost slightly more, typically \$200–\$250, due to multi-vendor compatibility and higher optical power budgets.

Factors Affecting Cost

Vendor Compatibility: Modules compatible with multiple OLT brands (Huawei, ZTE, Nokia) are generally more expensive than single-vendor modules. **Transmission Speed:** Symmetric XGS-PON modules (10 Gbps) are priced higher than asymmetric XGPON modules (2. 5/10 Gbps) due to higher performance.

Distance and Optical Budget: Modules supporting longer distances (up to 20 km) or higher split ratios may cost more because of higher transmitter power and receiver sensitivity. Features: Modules with DDM/DOM (Digital Diagnostic Monitoring), industrial temperature range, or hot-pluggable SFP+ form factor can increase the price. Bulk Orders: Suppliers often provide discounts for bulk purchases, which can reduce the per-unit cost significantly.

Summary

For a single XGPON/XGS-PON SFP+ optical module, expect to pay roughly \$80-\$250, with higher-end modules offering multi-vendor compatibility, dual-mode operation, and advanced diagnostic features. Bulk purchases or OEM-specific modules may adjust the price further. Always verify compatibility with your OLT equipment before purchasing to avoid additional costs for EEPROM programming or firmware adjustments.

Article Content

GPON/EPON/10G XGSPON/XGPON Transceiver Modules | FiberMall

FiberMall offers PON Transceiver Modules using bidirectional transmission on a single fiber, including GPON/EPON SFP OLT/ONU and 10G EPON/XGPON/XGSPON OLT/ONU.

XG-PON 10G/2.5G OLT SFP+ N2a Optical Transceiver

XG-PON 10G/2.5G OLT SFP+ N2a Optical Transceiver Module P/N:XGPON-OLT-N2a
\$220.00 USD Free Worldwide shipping on orders \$159

XGPON OLT/ONU Types Prices & Technical Specifications

Our XG-PON portfolio includes everything required for a complete deployment, from Central Office OLT modules (available in both SFP+ and XFP form factors) to Customer Premises ONU/ONT modules.

10G XGPON OLT/ONU Transceiver Modules | FiberMall

They convert incoming optical signals from the passive optical network into electrical signals for end-user devices, and vice versa. These transceivers support data rates of 10 Gbps downstream and 2.5

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

Whether operators are expanding GPON networks, increasing splitter ratios, or preparing for 10G PON migration, Huawei PON SFP modules provide reliable, cost-effective, and future-ready

Why Upgrading to XGS-PON Is Affordable: Costs, ROI, and Long

The initial upgrade cost is small compared to long-term ROI, operational savings, and the ability to future-proof your FTTH network. A phased approach satisfies growing bandwidth demands,

XG-PON/XGS-PON ONU Stick SFP+ Transceiver with 8311, 10G

Amazon Return Policy: Amazon Voluntary 30-Day Return Guarantee: You can return many items you have purchased within 30 days following delivery of the item to you.

XGS-PON/GPON Combo OLT C+ SFP+

EDGEOPTIC XGS-PON/GPON Combo OLT SFP+: dual-mode 10G/2.5G, 35dB/34dB budget, 20km SMF. SC/UPC for seamless FTTH migration from GPON to XGS-PON networks.

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

Coexistence Elements Solutions Guide

Corning Optical Communications has integrated our micro-optics devices into various industry recognized hardware platforms, such as Centrix™, Eclipse®, and LGX. Corning's CEX portfolio has

Optical Transceiver Modules Prices & Specifications

What is Optical Transceiver Modules/SFP? Optical Transceiver Modules/SFP, also called fiber optic transceiver or optical transceiver, is a typically hot-pluggable

GPON vs. XG-PON vs. XGS-PON: A Comprehensive

A comprehensive comparison of GPON, XG-PON, and XGS-PON technologies, covering bandwidth, performance and coexistence strategies.

Understanding PON Technologies: GPON, XG-PON, and XGS-PON

Explore the differences between GPON, XG-PON, and XGS-PON, comparing speeds and applications to help choose the right PON technology for your network needs.

GPON vs XG-PON vs XGS-PON, What's the Difference?

Discover the key differences between GPON, XG-PON, and XGS-PON, their coexistence strategies, and how they shape next-generation fiber networks.

What is GPON? Complete Guide to Gigabit Fiber Networks

Learn GPON technology basics, how it works, advantages vs EPON, and future PON trends. Complete guide to Gigabit-capable Passive Optical Networks.

PON Module Parameters Guide: How to Choose the Best GPON & EPON Modules

GPON, XGPON and XGSPON Module GPON Module Another key PON technology is GPON (Gigabit Passive Optical Network), which supports upstream rates of 1.25G and downstream

XG-PON and XGS-PON: Understanding the Principles and

XG-PON and XGS-PON offer higher bandwidth than GPON. Unlock the principles and uses of XG-GPON and XGS-PON, giving you an in-depth understanding of next-generation network

Everything You Need to Know About GPON SFP

Learn all about GPON SFP modules, from installation at central offices to customer premises. Upgrade your network with cost-effective and

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

