

Cost ONU Optical Network Unit SFP



Overview

A GPON optical network unit with a 2.5 GbE port that delivers 1.2 Gbps uplink / 2.5 Gbps downlink speeds at distances up to 20 km.

Key Takeaways

GPON/EPON SFP ONUs typically cost between \$50 and \$150 per unit, depending on brand, data rate, and compatibility.

ONU SFP modules are compact optical network units designed to plug directly into the SFP slot of switches, routers, or industrial devices, providing GPON or EPON connectivity without a separate external ONU. They support high-speed broadband services, commonly 2.5 Gbps downstream and 1.25 Gbps upstream, and can cover distances up to 20 km from the OLT. These devices integrate the functions of traditional ONUs into a small form factor, enabling easier deployment and reduced network footprint.

Factors Affecting Cost

- **Data Rate and Standard:** Modules supporting higher speeds (2.5G/1.25G) or XPON compatibility (GPON + EPON) are generally more expensive than basic 1G SFP ONUs.
- **Brand and Interoperability:** Well-known brands like PLANET, Optcore, and iszo may charge a premium for guaranteed compatibility with mainstream OLTs and advanced features like VLAN, QoS, and OMCI support.
- **Optical Class and Connector Type:** Class B+ or higher modules, and those with SC/APC connectors, can cost more than standard SC/UPC variants.

- Additional Features: Hot-swappable design, MAC/SN/LOID modification, and firmware upgrade capabilities can slightly increase the price .

Typical Price Range

- Entry-level SFP ONUs: \$50-\$80, suitable for basic GPON/EPON connections with standard 1.25G/2.5G rates .
- Mid-range SFP ONUs: \$80-\$120, offering better interoperability, extended distance support, and advanced management features .
- High-end or XPON SFP ONUs: \$120-\$150+, supporting dual GPON/EPON standards, advanced QoS, and enterprise-grade reliability .

Purchasing Considerations

- Ensure compatibility with your OLT to avoid registration issues. Some ISPs require specific ONU firmware or bridge mode settings .
- Check whether the SFP ONU supports dynamic bandwidth allocation (DBA) and security features like VLAN isolation and ACL filtering .
- Consider warranty and return policies, as some vendors restrict returns if the device shows signs of use or firmware modification . In summary, the cost of an ONU SFP module depends on speed, standard, brand, and additional features, with most units falling in the \$50-\$150 range. For reliable deployment, prioritize compatibility with your OLT and required network features.

Article Content

GPON ONU SFP Transceiver

PLANET GPN-SFP is an SFP GPON ONU device designed in compliance with the ITU-T G.984 standard. It is a cost-effective

GPON ONT ONU SFP Class B+ Transceiver

Optcore's OSP2G-GNU is a high performance and cost-effective

iszo 1.25G/2.5G XPON/GPON/EPON ONU,SFP Stick

iszo 2.5G media converter transceiver offers lightning-fast, full-duplex/half-duplex

WaveFiber ONU

A GPON optical network unit with a 2.5 GbE port that delivers 1.2 Gbps uplink / 2.5 Gbps downlink speeds at distances up to 20 km.

10G XGSPON SFP+ ONU Stick 8311 Web IP MAC SN Manage

APPLICATIONS: The XGS-PON ONU SFP+ Stick, also referred to as the "SFP+ encapsulated PON ONU module" in

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The XGSPON ONU stick with MAC module is designed for 10G passive optical network

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On top of that, GPON SFP transceiver is an essential part of GPON system which is necessary both for optical

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Fiber Loco

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What is the Difference Between ONT & ONU?

An optical network terminal (ONT) and optical network unit (ONU) are essentially the same things. The difference is the physical

All You Need to Know About Optical Network Unit Devices

In today's fast-paced information age, the network is a crucial part of our daily lives and work. Optical fiber access

ONU vs. ONT vs. SFU vs. HGU: What is the Difference?

An Optical Network Unit (ONU) is a device used to terminate an optical fiber link at the user premises, typically in a

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SFP Module Price: Strategic Cost Analysis and TCO Factors

Compare SFP module prices, OEM vs third-party costs, and total cost of ownership (TCO). Learn what drives SFP pricing and how

Defining ONU: Optical Network Unit

An Optical Network Unit (ONU) is a device used in fiber-optic communication networks, specifically in Passive Optical Network

XPON/GPON/EPON ONU & ONT with Wi-Fi, CATV, VoIP

VSOL offers a wide range of XPON/GPON/EPON ONU/ONT, integrating Wi-Fi, CATV, and VoIP for high-speed, simplified network

ONU Optical Network Unit, FTTH ONU-Grandway

Optical Network Unit Grandway ONU has a wide range of products, providing the final optical and electrical conversion from optical

Understanding GPON OLT / ONU / ONT SFP Module - Fiber Optic Blog

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What is ONU and Why Does It Matter for Your Internet Connection

What is Optical Network Unit (ONU)? An ONU converts fiber optic signals for your devices, ensuring fast, stable

GPN-SFP

The GPN-SFP is a device that integrates the functions of a traditional Optical Network Terminal (ONT) or Optical Network Unit (ONU)

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

Learn the latest 10G SFP price ranges, key cost factors, brand comparisons, and how to buy reliable 10G SFP modules at the best

Huawei SFP-GPON-ONU 1244M/2488M 20km SC/UPC Transceiver

The Huawei SFP-GPON-ONU is a carrier-grade PON Optical Transceiver designed for GPON ONU uplinks in FTTx and broadband

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Universal PON GPON/EPON ONU/ONT SFP Stick w/ MAC SC

Best Price Guarantee. This is a ONU (Optical Network Unit) / ONT (optical network terminal) placed in the case of the SFP format

GPN-SFP

It provides long-term service, lower operating costs, an SFP interface, easy installation and maintenance, and a more stable

ONU Price Guide: Comprehensive Analysis of Optical Network Unit

Explore detailed insights into ONU pricing, including features, advantages, and investment value for fiber optic network deployments.

GPON OLT/ONU SFP Transceiver Modules | FiberMall

Affordable Solutions: GPON SFPs use passive components, so the cost of such construction can be decreased in comparison with

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

