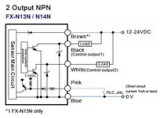
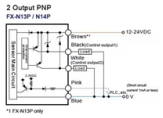
Cost ONU Optical Network Unit SFP





Overview

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

Key Takeaways

GPON/EPON SFP ONUs typically cost between $50 and $150 per unit, depending on brand, data rate, and compatibility. OverviewONU 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 RangeEntry-level SFP ONUs: $50–$80, suitable for basic GPON/EPON connections with standard 1. 25G/2. 5G rates.

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Mid-range SFP ON

Us: $80–$120, offering better interoperability, extended distance support, and advanced management features.

High-end or XPON SFP ON

Us: $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 IS

Ps 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 customer premises system that provides broadband services

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

This is a ONU (Optical Network Unit) / ONT (optical network terminal) placed in the case of the SFP format module. Allows any Router to be used for Fiber to Home installations without any special

XGSPON ONU SFP+ 1270nm-TX/1577nm-RX 9.953G-TX/9.953G-RX

Overview The XGS-SFP-ONT-MAC-I is a high-performance optical transceiver module designed for 10-Gigabit-capable passive optical network (XGS-PON) deployments. It functions as an integrated

ONT/ONU Devices | Optical Network Terminals and Optical Network

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Discover our selection of GPON, EPON, and XG (S)PON ONT/ONU devices. Choose from reliable Optical Network Terminals for seamless connectivity and efficient network solutions.

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

iszo 2.5G media converter transceiver offers lightning-fast, full-duplex/half-duplex Ethernet capabilities, allowing for smooth and reliable data transmission. Plus,

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. Note. A PoE adapter is included only with single-unit purchases.

Optical Network Unit Price

Discover optical network unit price deals on CE-certified GPON, EPON, and XPON devices with 2.4G/5G WiFi, ideal for FTTH networks.

Network Interface Device Fiber: 2026 Guide

An optical network interface device, commonly called an Optical Network Terminal (ONT) or Unit (ONU), terminates a fiber optic line. It demultiplexes the signal into separate services like

Ethernet Switch Port Types Explained 2026: RJ45,

A complete engineering guide to Ethernet switch port types: RJ45, SFP, SFP+, SFP28, QSFP+, QSFP28, Combo, Stack, PoE, access/trunk/hybrid

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The convergence of silicon photonics with traditional indium phosphide (InP) fabrication is reducing unit costs while enabling higher integration density, which is expected to lower the entry barrier for

Optical Transport Network (OTN) Explained: The Ultimate Guide to

Conclusion The Optical Transport Network (OTN) is the foundation of modern optical communications. With its digital wrapper technology, FEC, SLA assurance, and flexible architecture,

OEM 4-Port Gigabit Wi-Fi 6 Mesh ONU

CORE INTERNAL TOPOLOGY The OEM 4-Port Gigabit Wi-Fi 6 Mesh ONU is architected around a highly integrated System-on-Chip (SoC) architecture that combines a Gigabit Passive

Top Optical Modules for POTN Deployment: SFP, QSFP, and OSFP

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Modern optical transport networks are the nervous system of digital infrastructure. As data demand continues to multiply, choosing the right optical module becomes a crucial decision in

#hsgq #olt #hsgq #fiberoptic #epon #gpon #xpon #onu #fttx #sfp

This technology integrates all the functionality of a GPON #OLT into a compact SFP module, allowing you to instantly upgrade your existing Ethernet switches to an optical access platform.

Systems Integrator''s Blueprint: Step-by-Step Fiber Optic Sizing Guide ...

ONU Authentication and Service Provisioning 3.1 Authorizing ONUs Before an Optical Network Unit (ONU) can connect to the network, it must be authorized by the OLT. This is typically done by

UNDERSTANDING OPTICAL NETWORK TERMINALS ONTS – A

Function of the Norwegian Passive Optical Network Unit A passive optical network (PON) is a telecommunications network that uses only unpowered devices to carry signals, as opposed to

ODI 2.5G Cat Stick MA5671A PONSTick GPON EPON Dual Mode Gigabit SFP ...

Whether you''re setting up a small office network or expanding your home network, the ODI 2.5G Cat Stick MA5671A PONSTick is a cost-effective solution that delivers gigabit speeds.

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