

Certified Passive Optical Network 10G



Overview

NG-PON2 (Next Generation Passive Optical Network 2, or ITU-T G. 989) is the first multi-wavelength access standard. Cisco's family of 10-Gbps symmetrical passive optical network (XGS-PON) Optical Network Terminals (ONTs) delivers flexible, high-performance broadband connectivity for a wide range of fiber-to-the-premises use cases, including residential spaces, Multidwelling Units (MDUs), Small Office/Home Office. 10G-PON uses fiber-optic cable to deliver very high-capacity connections to multiple subscribers simultaneously—providing the bandwidth needed to support today's demanding applications and tomorrow's emerging services. XGS-PON is designed to simplify deployment and upgrades, reducing the time and. PON (Passive Optical Network) is a point-to-multipoint (P2MP) fiber access network that uses passive optical splitters to distribute signals from an OLT (Optical Line Terminal) to multiple ONUs (Optical Network Units). Characterized by its simple architecture, low equipment requirements, and energy. Integrated laser drivers, TIAs, and CDR combos enabling cost-effective FTTx deployment from EPON/GPON to next-generation 25G/50G standards. PON Access Networks: Fiber-to-the-X Technology Passive Optical Networks (PON) represent the critical link between data centers and end-users, enabling. 10G-PON is an abbreviation for 10 Gbps Passive Optical Network. This protocol is a computer networking standard for data links that was introduced back in 2010. 23, 2024 -- Sercomm Corporation (TWSE: 5388), a leading provider of telecom and broadband equipment, is pleased to announce the certification of its I-TEMP 10G SFP+ ONU for XGS-PON and 10G EPON with Harmonic's cOS PON OLT portfolio.



Article Content

Hot

Passive Optical Networks

Semtech's PON-X family delivers high-performance analog laser drivers, TIAs and CDR products for passive optical networks. Supporting EPON, GPON, 10G-50G

Feb 07, 2026 Hot

10GB-C10-SFPP Extreme Networks compatible 10G PDAC 10m

Extreme Networks 10GB-C10-SFPP compatible 10G Passive DAC SFP+ 10m Twinax Cable. Explore our portfolio of Extreme Networks compatibles!

Apr 13, 2026 Hot

PowerPoint Presentation

6. ITU-T G.9807.2 – 10 Gigabit-capable passive optical networks (XG(S)-PON): Reach extension Outlines the architecture and interface parameters for XGS-PON systems with extended reach using

Nov 29, 2025 Hot

RLTECH PON (Introduction to 10G GPON Technology)

This article focuses on 10G GPON technology, covering its standard development (e.g., FSAN dividing next-generation PON into NGA1 and NGA2 stages, and ITU-T introducing the G.987 series standards).

Oct 14, 2025 Hot

The Definitive Guide to Passive Optical Network (PON): Architecture ...

1. Introduction: Unpacking the "Passive" Revolution in Network Connectivity Passive Optical Network (PON) stands as a foundational technology in the evolution of modern

Feb 02, 2026 Hot

Understanding 10G-PON, XGS-PON, GPON, and 10G

Explore 10G-PON, XGS-PON, GPON, and 10G-EPON technologies in passive optical networks. Discover how these next-generation solutions

Mar 02, 2026 Hot

China to Pilot 10-Gb Passive Optical Networks This Year

(Yicai) Jan. 8 -- China will launch a pilot program for 10-gigabit passive optical networks by the end of the year to enhance users' broadband experience and enable new industrial applications. The

Dec 14, 2025 Hot

Sercomm Unlocks Deployment Flexibility for Cost

This certification marks a significant enhancement providing network operators with a powerful and flexible solution to meet diverse deployment needs, as the 10G

Jul 19, 2025 Hot

10G-PON | 10G Passive Optical Network | PON

This eBook walks through five key questions every network engineer should consider before deploying—and how XGS-PON can future-proof your network for years to come.

Sep 05, 2025 Hot

Passive Optical Networks: Cabling Considerations and

Describes the critical components used in PONs and discusses network architectures to consider in an effective PON deployment.

Aug 26, 2025 Hot

A 5-Minute Guide to Understanding 10 GPON

A 5-Minute Guide to Understanding 10G PON LarryDec 10, 20241 min read What is 10G PON 10G PON (10 Gigabit Passive Optical Network) refers to a passive

Mar 06, 2026 Hot

What is 10G PON and How Does It Work

Understanding 10G PON Definition and Overview 10G PON, short for 10-Gigabit Passive Optical Network, represents the next generation of fiber

Jul 27, 2025 Hot

What Is XGS-PON: A Beginner's Guide

Therefore, network reliability, bandwidth capacity, and security have become pressing issues for broadband service providers (BSP). In response,

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Cisco 10G Routed PON ONT Data Sheet

These 10G optical network terminals for fiber-to-the-premises applications can be managed remotely and are interoperable with the Cisco Routed PON solution. Three models offer a

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Optical 10G PON

10G-PON is an abbreviation for 10 Gbps Passive Optical Network. This protocol is a computer networking standard for data links that was introduced back in 2010. It

Aug 27, 2025 Hot

Network TAPs

The 10Gtek TAP Series is a family of high-density passive fiber optical network TAPs which require no power source to operate. By splitting the light optically, the TAP

Oct 28, 2025 Hot

Shop for 10G SFP+ Optical Transceivers

Our 10G SFP+ transceivers are 100% compatibility tested in our US based lab, and certified for use with over 90 OEMs including Arista, Cisco, Dell, Intel, Juniper, Mellanox, Nokia. Free evaluations and

May 02, 2026 Hot

Extreme Networks 10307 compatible 10G Passive DAC SFP+ 10m

Extreme Networks 10307 compatible 10G Passive DAC SFP+ 10m Passive Twinax Cable. Explore our full portfolio of Extreme Networks compatible cables!

Nov 07, 2025 Hot

Exploring 10G PON Modules: XG-PON vs XGS-PON vs

Explore the evolution and technical comparison of 10G PON standards to help you select the ideal solution for FTTH, enterprise, or 5G backhaul.

Feb 28, 2026 Hot

IEEE Passive Optical Networks

This chapter begins with a discussion on the Ethernet point-to-multi-point (EPON) protocol. The EPON standard, which was developed as part of the IEEE Ethernet in the First Mile (EFM) project, was

Sep 14, 2025 Hot

Passive Optical Network (PON) technologies moving to 10G and 25G

Passive Optical Network (PON) technology is changing, moving from older GPON's 2.5Gbit/s and 1.25Gbit/s data rates to XGS-PON's maximum 10Gbit/s symmetric speeds and

Dec 29, 2025 Hot

Key Technologies for a Beyond-100G Next-Generation

The explosive development of emerging telecommunication services has stimulated a huge growth in bandwidth demand as people seek universal

Nov 12, 2025 Hot

New ITU standards to boost Fibre to the Home from 10G to 50G

ITU News spoke with Frank Effenberger, Fellow at Futurewei Technologies and Rapporteur for ITU's working group on optical systems for fibre access networks (Q2/15), to learn

Aug 15, 2025 Hot

Passive Optical Networks | Anritsu America

Anritsu introduces Passive Optical Network (PON) testing solutions that help reduce workload for the end-to-end testing of PON installation and deployment.

Oct 17, 2025 Hot

Next-Generation Ethernet Passive Optical Networks: 10G-EPON

Providing 10 times more raw bandwidth than current 1G-ethernet passive optical networks (EPON), 10G-EPON is poised to deliver the bandwidth required for next - generation

May 05, 2026 Hot

What's The Difference: Passive Optical Networks PON, GPON, EPON, 10G

In between these two locations within a PON, are passive components splitting, combining, and conditioning the signal. As mentioned earlier, there are several types of PONs.

May 11, 2026 Hot

50G PON and the Rise of Ubiquitous 10G

Summary Passive optical networking (PON) is the access technology of choice for thousands of operators across the world, driven by its ability to deliver high-bandwidth, reliable

Oct 31, 2025 Hot

XGPON 10 Gigabit capable passive optical network

XGPON (10 Gigabit-capable Passive Optical Network) is a high-speed fiber-optic communication technology that enables the delivery of ultra-fast broadband services to homes,

Nov 30, 2025

Contact Us

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