

Switch optical port epon



Overview

The EPon OLT 8 port ET0816-H is a high-performance 1U GPON OLT designed for fiber-to-the-home (FTTH) and fiber-to-the-building (FTTB) deployments. Cisco Catalyst PON Series switches extend the power of Catalyst switches to passive optical network infrastructure. With 8 PON ports and 8 uplink interfaces (copper + SFP), this aggregation switch supports up to 512 ONUs, delivering carrier-grade reliability and. In today's connected world, EPON (Ethernet Passive Optical Network) is a game-changer for delivering blazing-fast internet. EPON is a combination of Ethernet technology and PON technology in compliance with the IEEE 802.3ah standards issued in June 2004. As shown in Figure 1, a typical. By 2026, fiber access has become the backbone of modern connectivity. Gigabit-to-home services, multi-gigabit business access, campus digitalization, cloud and edge computing, 5G backhaul, and F5Gall depend on reliable, scalable, and cost-effective last-mile fiber. As demand grows for more flexible, cost-effective, and high-performance networks, XPON ONUs (Optical Network Units) are emerging as the ideal solution for FTTH.



Article Content

May 30, 2026

EPON OLT 8 Port | High-Capacity Fiber Aggregation

EPON OLT 8 Port - High-performance 1U OLT with 8 PON ports, 8 uplinks, and advanced Layer 2/3 features. Ideal for FTTH/FTTB deployments supporting up to

Dec 23, 2025

An Introduction To The Difference Between GPON And

This article briefly explains their differences and connections. □ Difference in Supported Protocols EPON stands for Ethernet Passive Optical Network. It is

Oct 31, 2025

EPON, a long-haul Ethernet access technology

EPON is a long-range Ethernet access technology based on fiber optic transport network that adopts a point-to-multipoint architecture.

Sep 19, 2025

Cisco Catalyst PON Series Switches Data Sheet

Cisco Catalyst PON Series switches extend the power of Catalyst

May 29, 2026

EPON (Ethernet passive optical network)

Introduction: Ethernet Passive Optical Network (EPON) is a fiber-optic access technology that is designed to provide high-bandwidth, reliable and cost-effective broadband services to both

Jul 19, 2025

Do You Know What is EPON ONU / EPON ONT?

EPON ONU is an important part that supports the EPON IEEE 802.3ah standard. It is a device that can effectively transform fiber optical signals into

Apr 21, 2026

GPON vs. EPON

GPON means Gigabit Passive Optical Network and EPON means Ethernet Passive Optical Network. Both of them belongs to PON (Passive Optical Network), which is a fiber network that only uses fiber

Nov 01, 2025

Guide to GPON/EPON Auto-Switching XPON ONU

Discover how dual-mode XPON ONU enables seamless GPON/EPON auto-switching, reduces upgrade costs, and simplifies network management.

May 18, 2026

How to Choose From EPON, GPON, XG-PON & XGS

Integration with WDM, open switches, and OpenWiFi-standard network controllers to enable unified management of APs and switches How to

Apr 13, 2026

What Is an OLT? Complete Guide to Optical Line Terminal | Langzhi ...

Learn what an OLT (Optical Line Terminal) is, how it works, OLT vs ONU vs ONT differences, GPON vs EPON, port capacity, and how to choose the right OLT for your fiber network.

May 16, 2026

What is EPON (GEPON) OLT: Functions, Types,

EPON OLT (optical line terminal) is a device that acts as the service provider endpoint of a passive optical network. It connects to the Ethernet switch

May 26, 2026

ONU EPON GEPON : fonctions, types et différences avec le GPON

Chaque port PON d'un OLT EPON peut desservir jusqu'à 32 ou 64 ONU. L'ONU EPON (Optical Network Unit) est installé côté abonné. Il reçoit le signal optique de la fibre via un connecteur

Jan 06, 2026

Guide to GPON/EPON Auto-Switching XPON ONU

It automatically detects whether the OLT (Optical Line Terminal) is EPON or GPON and switches modes accordingly. This ensures seamless integration with existing ISP or operator

Aug 15, 2025

4 EPON OLT 10G * 4 SFP+uplink port, LL-EPOLT-XE-E04

10G * 4 SFP+uplink port, 4EPON OLT,L3 fiber switch, WEB management,ONU unlocked, compatible with HUAWEI ZTE VSOL and other ONTs 1. Optical power detection 2,VLAN TRUNX RSTP IGMP

Aug 01, 2025

What Is Passive Optical Networking (PON)? GPON vs. EPON

Passive Optical Network (PON) is a point-to-multipoint optical access technology. Ethernet PON (EPON) and gigabit PON (GPON) are the most common PON technologies and have

Jan 26, 2026

EPON OLT Configuration Guide

Terms Conventions OLT: It is the Optical Line Terminal, included the switch and uplink port. PON: It stand for PON protocol process module and PON port to connect with ONU side.

Nov 29, 2025

EPON Explained: Unlocking High-Speed Fiber Networks

In today's connected world, EPON (Ethernet Passive Optical Network) is a game-changer for delivering blazing-fast internet. This guide dives

Mar 22, 2026

EPON — An All Fiber Access Network

EPON leverages an all-fiber optic transport system and signaling architecture called an optical distribution network or ODN. The ODN is used in place of our

Oct 31, 2025

2026 PON Evolution Guide: EPON, GPON, XGS-PON

Learn how PON evolved from APON/BPON to EPON, GPON, XGS-PON and 10G-EPON, and how to choose right fiber access technology for FTTH,

Mar 15, 2026

Optical Modules in OLT vs. Switches: Types and

OLT (Optical Line Terminal) and switches are critical devices in optical communication networks, but their optical modules differ significantly in

Sep 20, 2025

How Does xPON Differ from EPON/GPON?

By supporting both GPON and EPON modes, xPON enables unified management, smoother upgrades, and reduced operational complexity. This

Contact Us

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