

How much does the new passive optical network PON cost from an ODM manufacturer



Article Overview

The cost of a new PON system from an ODM manufacturer typically ranges from a few thousand to tens of thousands of USD per deployment, depending on scale, components, and technology generation.

Key Cost Components

- **Optical Line Terminal (OLT):** The central device at the service provider or enterprise hub that manages multiple optical network terminals. A single 1U OLT can serve 1,000–2,000 users, reducing the need for multiple switches and lowering operational costs .
- **Optical Network Terminals (ONTs) / Units (ONUs):** Devices at the customer premises or endpoints. With mass production, ONT prices have dropped significantly, making PON deployments more cost-effective .
- **Passive Splitters:** These unpowered devices divide optical signals to multiple endpoints. Splitters are inexpensive relative to active electronics, contributing to the “passive” cost advantage .
- **Optical Modulators:** High-performance modulators, such as phase or amplitude modulators, can cost up to USD 5,000 and USD 2,500, respectively, for advanced PON systems . These are typically included in higher-end or next-generation PON deployments like 25G-PON or 50G-PON.
- **Fiber Cabling and Installation:** Single-mode fiber is lighter and cheaper than copper cabling, and passive networks reduce the need for intermediate distribution frames...

Article Content

Dec 09, 2025

Passive Optical Network Market | Global Market Analysis Report

Due to the low cost of equipment installation, passive optical networks (PON) significantly reduce the total cost of

Mar 29, 2026

Passive Optical Network Market Growth Analysis 2026 to 2035

Passive optical network market to reach \$61.03 billion by 2030 at 19.0% cagr, driven by increasing data traffic from expanding

May 07, 2026

Passive Optical Network Market | Global Market Analysis Report

Passive Optical Network Market is expected to reach USD 118.6 billion and likely to surge at a CAGR of 14.3% during

Jan 21, 2026

Passive Optical Network Market Size, Share, Trend, And Forecast 2032

Global passive optical network market size worth at \$12.97 billion in 2023 and projected to hit \$58.67 billion by 2032, with a CAGR of

Mar 06, 2026

Passive Optical Network Architecture

PON architecture, or Passive Optical Network architecture, is defined as a passive optical network deployed in a point-to-multipoint

Mar 08, 2026

Passive Optical Network Tutorial

A passive optical network (PON) is often referred to as the "last mile" between an ISP (Internet Service Provider) and

Dec 24, 2025

Passive Optical Network (PON) Equipment Companies

List of the top Passive Optical Network (PON) Equipment companies based on extensive research conducted by Mordor Intelligence

Feb 04, 2026

The Comprehensive Guide to PON Architecture: Mastering OLT,

Comprehensive guide to Passive Optical Networks (PON), covering OLT, ODN, ONU/ONT, GPON/XGS-PON/NG

Jun 03, 2026

Passive Optical Network Market

A passive optical network (PON) is a fiber-optic network that utilizes optical splitters and a point-to-multipoint topology

May 02, 2026

Passive Optical Network (PON) Equipment Market

The Passive Optical Network (PON) Equipment Market, valued at USD 23.79B in 2025, is projected to reach USD 50.91B by 2031,

Apr 14, 2026

50G Passive Optical Networks Equipment Market Report 2026

The 50G Passive Optical Networks (PON) Equipment market will reach \$5.07 billion in 2030 at 24.4%, driven by rising connectivity

Jan 03, 2026

25 Gigabit Passive Optical Network (PON) Equipment Market Report

The 25 gigabit passive optical network (pon) equipment market size has grown exponentially in recent years. It will grow from \$2.35

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Passive Optical Network (PON) Equipment Market Size

SB 156 appropriates \$3.25 Bn to construct the infrastructure required to bring internet connectivity to homes, businesses, and

Jul 23, 2026

Passive Optical Network (PON) Market Trends & Sizing Estimation

The Passive Optical Network (PON) Market refers to the global industry centered on the deployment, production, and

May 03, 2026

Passive Optical Network (PON) Equipment Market Size

Passive Optical Network (PON) Equipment Market is projected to grow from USD 15.8 billion in 2025 to USD 49 billion by 2035, at a

Aug 12, 2025

Passive Optical Network - Wikipedia

Passive Optische Netze (PON), englisch Passive Optical Networks, sind optische Zugangsnetze, die zwischen Vermittlungsstelle

Jul 22, 2026

Passive Optical Network Market Forecast and Size by 2025

The passive optical network market was valued at US\$ 9,359.1 million in 2017 and is projected to reach US\$ 11,144.6

May 26, 2026

Things You Need to Consider for PON Network Deployment

By disaggregating network and control plane management from OLT devices and migrating them to Commercial Off

Feb 26, 2026

Passive Optical LAN Shines in Cost Comparison

The near-universal adoption of passive optical network (PON) technologies in the fiber-to-the-home market has driven the product

Jul 30, 2025

Passive optical network

A passive optical network (PON) is a fiber-optic telecommunications network that uses only unpowered devices to carry signals, as

Jan 16, 2026

Passive Optical Network (PON) Equipment Market :

Overview The Passive Optical Network (PON) Equipment Market size was valued at USD

Aug 07, 2025

Understand Passive Optical Network: Key Component

Passive Optical Networks (PONs) play a fundamental role in modern broadband

Jun 25, 2026

Passive Optical Network Equipment Market Report 2026

Passive optical network equipment market to reach \$38.45 billion by 2030 at 10.5% cagr, driven by rising demand for high-speed

Dec 11, 2025

Passive Optical Network (PON) Equipment Market : Growth

The Passive Optical Network (PON) Equipment Market size was valued at USD 35.72 Billion in 2025 and the total

Mar 07, 2026

Passive Optical Networks Progress: A Tutorial

For many years, passive optical networks (PONs) have received a considerable amount of attraction regarding their

May 19, 2026

Passive Optical Network Equipment Market Size, Share & Forecast 2032

The Passive Optical Network (PON) Equipment Market is projected to grow from USD 14,715 million in 2024 to USD 41,682.14

Contact Us

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