



Price List for Energy-Saving EPON Equipment for Data Center Interconnection

Article Overview

Energy-saving EPON equipment costs vary widely, typically ranging from \$500 to \$5,000 per unit depending on capacity, features, and vendor, with additional savings from reduced power consumption over time.

Overview of EPON Equipment Costs

Energy-efficient EPON devices for data center interconnection include optical line terminals (OLTs), optical network units (ONUs), and switches with EPON interfaces. Pricing depends on:

- o Port density and speed: 1G, 10G, or 25G EPON ports significantly affect cost. Higher-speed OLTs can cost \$3,000-\$5,000 per chassis, while ONUs range from \$500-\$1,500 per unit.
- o Energy-saving features: Devices with dynamic bandwidth allocation, low-power sleep modes, and ENERGY STAR certification can reduce operational costs but may have a higher upfront price.
- o Vendor and support: Leading vendors like Huawei, ZTE, Calix, and ADTRAN offer enterprise-grade EPON solutions with varying warranty and service packages, influencing total cost.

Operational Savings

Energy-efficient EPON equipment reduces power consumption per port, which can save hundreds to thousands of dollars annually in electricity costs for large-scale data centers. For example, ENERGY STAR-certified IT equipment can consume 30% less energy, translating into significant savings when scaled across hundreds of network devices . These savings also reduce cooling requirements, indirectly lowering operational expenses .

Budgeting and Procurement Tips

- o Estimate total cost of ownership (TCO): Include both capex (equipment purchase) and opex (energy, cooling, maintenance) when evaluating EPON solutions .
- o Consider modular or scalable OLTs: Modular designs allow incremental expansion, reducing initial investment while maintaining energy efficiency.
- o Leverage vendor quotes: For precise pricing, request custom quotes from multiple suppliers, specifying port count, speed, and energy-saving features.

References for Planning

- o ENERGY STAR Product Finder: Identify certified energy-efficient network devices .



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o Data Center Infrastructure Cost Analysis: Provides insight into capex and opex considerations for data center equipment .

o Best Practices for Energy-Efficient Data Centers: Offers guidance on selecting IT and network equipment to maximize energy savings . In summary, while exact prices vary by vendor and configuration, expect EPON OLTs to cost \$3,000-\$5,000 per chassis and ONUs \$500-\$1,500 per unit, with energy-saving features providing long-term operational savings. For accurate budgeting, obtaining vendor-specific quotes is essential.

Explore the resources below to see the best ways to save energy in your data center - be it large or small.

A full data center equipment list for 2026: servers, racks, power, cooling, and network gear,

For XG-PON, the uplink center wavelength is configured at 1270nm and the downlink at 1577nm, which is the same as

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

Learn what to look for in an EPON OLT, from key specs and types to pricing and top models. Make a smart, informed

In addition, with the increased productivity of your servers, there may be fewer products that need to be purchased, leading to lower

Sourav Dutta and Goutam Das Abstract--Economical and environmental concerns necessitate network engineers to focus on

The point-to-multipoint optical network structure of EPON can cover a wide range of monitoring points, while providing



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Partner with ABB to power your data center operations 24/7 with solutions that are space-saving, time-saving, energy-saving, cost

A data center is a physical room, building, or facility for the purpose of the storage, management, and dissemination of data and

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This guide explores the most widely used and performance-optimized transceiver modules in modern data centers, categorized by

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