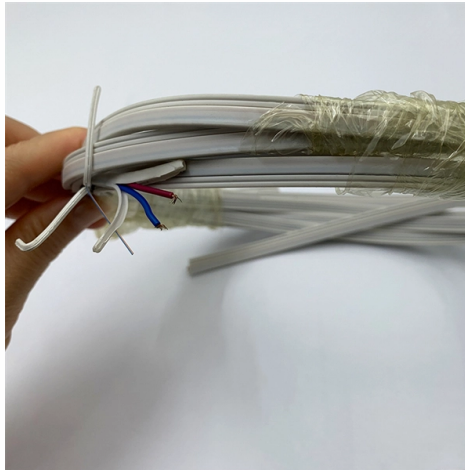


Cost OLT Optical Line Terminal 10G



AI Overview

10G OLTs typically range from \$3,000 to over \$50,000 depending on capacity, vendor, and features.

Price Overview The cost of a 10G-capable OLT varies widely based on vendor, model, and deployment scale. Entry-level or compact modules for small-scale deployments, such as Harmonic's Fin 10G SFP+ OLT module, can be deployed with minimal hardware investment and may cost a few thousand dollars per module. Mid-range OLTs, like ZTE's C600 or HSGQ 4-port units, are designed for SMB or mid-scale networks and typically range from \$5,000 to \$15,000 per chassis or module. High-capacity enterprise or carrier-grade OLTs, such as Cisco ME4600 or NCS 1010 series, can exceed \$50,000, especially when including uplink cards, switch fabric, and access modules.

Factors Affecting Cost

- PON Standard:** XGS-PON and 10G-EPON OLTs supporting symmetrical 10G speeds are more expensive than GPON (2.5G/1.25G) units.
- Chassis Size and Slots:** Larger chassis with more slots for PON cards or uplinks increase cost. For example, a 14RU chassis with 20 slots costs significantly more than a 3RU chassis with 5 slots.
- Environmental Rating:** Indoor (I-Temp) versus outdoor (E-Temp) models affect pricing due to ruggedization.
- Scalability and Modularity:** Modular OLTs with multiple PON cards or 10G uplinks allow future expansion but increase upfront cost.
- Vendor and Support:** Premium brands like Cisco or Adtran include SLA-backed support, firmware updates, and higher reliability, which adds to the price.
- Cost-Efficiency Considerations**
 - Power Consumption:** Devices consuming less than 150W are more cost-efficient over time.
 - ONU Support:** Higher-capacity OLTs supporting 512–2,000+ ONUs justify higher initial investment for large deployments.
 - Integration:** Compatibility with existing OSS/BSS and optical distribution networks can reduce operational costs.

Summary For a 10G OLT, expect:

- Small-scale deployments: \$3,000–\$10,000 per module
- Mid-scale deployments: \$10,000–\$25,000 per chassis
- Enterprise/carrier-grade deployments: \$...

Article Content

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What is ONU? An ONU (Optical Network Unit) is a key device in Fiber-to-the-Home (FTTH) and other FTTx networks, operating within a Passive

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Overview When procuring high-density OLT (Optical Line Terminal) chassis for carrier-grade deployments, a surprisingly critical question often arises before racking: Are the power cables

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By Component The market splits into Optical Line Terminals (OLTs), Optical Network Terminals (ONTs)/Optical Network Units (ONUs), and Passive Optical Components . OLTs sit at the service

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The ODN connects the Optical Line Terminal (OLT) located in the central office to the Optical Network Terminal (ONT) or Optical Network Unit (ONU) at customer premises. Acting as the

Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://adikor.eu>

Email: info@adikor.eu

Phone: +33 6 48 37 92 15

Address: 12 Rue de la Paix, 75002 Paris, France

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