

ASEAN Ten Countries Optical Line Terminal 400G



Article Overview

400G Optical Line Terminals (OLTs) enable high-capacity fiber access networks, supporting next-generation broadband and data center interconnects across ASEAN countries.

Overview of 400G OLT Technology

A 400G OLT is the central device in a fiber access network that aggregates traffic from multiple subscribers and connects to the core network. Modern OLTs support multi-gigabit services and can scale from tens to tens of thousands of subscribers, making them suitable for dense urban, suburban, and rural deployments . They are designed to handle high-bandwidth applications such as UHD video streaming, cloud services, and 5G backhaul.

400G Transceivers and Form Factors

400G OLTs rely on advanced optical transceivers that use either OSFP (Octal Small Form-factor Pluggable) or QSFP-DD (Quad Small Form-factor Pluggable – Double Density) modules. Both form factors support 8 electrical lanes at 50Gb/s each, achieving 400Gb/s per module . These transceivers can operate over parallel multi-mode fibers or single-mode fibers, with breakout options to lower-speed links (e.g., 2x200G or 4x100G) for flexible network design .

Modulation and Performance...

Article Content

Apr 27, 2026

Ultra Long Haul Optical Transport for a Leading Service Provider in ...

Overview A leading ASEAN service provider required a robust connection between five critical data centers across Singapore and

Jul 08, 2026

Optical Line Terminal — Taikan

Taikan's Optical Line Terminal (OLT) utilizes Gigabit Ethernet Passive Optical Network (GEAPON)

Oct 07, 2025

Optical Module Evolution: From 400G to 3.2T

Speed Roadmap: From 400G to 3.2T Optical module development has converged on a de facto "speed-doubling"

Jan 28, 2026

400G ZR & ZR+

400G ZR and ZR+ coherent pluggable optics have become new solutions for high-density networks with data rates

Aug 09, 2025

Optical networks

Asia-Pacific carrier-neutral provider expands network coverage with application-optimized optical line

Sep 07, 2025

ASEAN's Optical Fibers and Bundles Market Report 2026

The ASEAN market for optical fibers and bundles stands at a critical inflection point, shaped by the dual forces of

Aug 05, 2025

Coherent Optics: 100G, 400G and Beyond

Coherent Optics: 100G, 400G and Beyond Coherent pluggable optics are converging at 400Gbps transmission, the

Jan 07, 2026

Submarine Cable Map

TeleGeography's comprehensive and regularly updated interactive map of the world's major submarine cable systems

Jan 18, 2026

Data Center 400G and Beyond: Next-Gen Data Center Connectivity

Learn why data center operators must look at next gen data center connectivity to achieve faster, greater, and more powerful data

May 30, 2026

400G capable open line systems | Smartoptics

Upgrading the capacity of our open line systems from 100 to 400G is as easy as unplugging the existing optics and replacing it with

Aug 26, 2025

ZTE : A Global Leader in the Optical Line Terminal (OLT) and

ZTE has established itself as a dominant force in the global Optical Line Terminal (OLT) and Fiber-to-the-Home

Sep 15, 2025

Why 400G Is the Backbone of Tomorrow's Internet?

At the core of 400G innovation is coherent optical technology, which moves beyond traditional intensity-based

Sep 23, 2025

Cisco NCS1K-OLT-C Optical Line Terminal 400G C-band QSFP-DD

Deploy Cisco NCS1K-OLT-C 1010 Optical Line Terminal with 400G line rate and 2x QSFP-DD for scalable C-band DWDM transport.

Feb 11, 2026

Broadcom's 400G/lane Optical Solutions Pave the Path Toward 200T ...

Building upon its first-to-market 400G EML and PD debuted at OFC 2025, Broadcom is launching the Taurus BCM83640, the

Sep 29, 2025

ASEAN Ten Countries ONU Optical Network Unit 1G

ONU (Optical network units) A gigabit passive optical network (G-PON) comprises optical line terminals (OLTs) and optical network

May 12, 2026

PSE 100G/400G pluggable coherent optics

Our 400G Multihaul pluggable DCO transceivers support high optical output launch power of +3dBm to

Jun 13, 2026

Nokia's 400G Everywhere: Optimizing IP/Optical Networks with Next ...

Nokia's 400G Everywhere, launched by Nokia in May last year, introduces the fifth generation of digital coherent optics

Mar 14, 2026

Gpon Optical Line Terminal AOLT-4000N

Two control card slots for 1+1 CTL cards. Two switch and timing slots for 1+1 SWT cards with redundant 10-GbE and 1-GbE Service

Jul 23, 2026

OTN 100G and OTN 400G: Key Differences Explained

OTN 100G and OTN 400G enable scalable optical transport, comparing capacity, modulation, distance, spectrum

Aug 10, 2025

ASEAN Ten Countries Optical Receiver 100G

ASEAN Ten Countries Optical Receiver 100G The coherent receiver module CPRV1x2xA consists of an integrated polarization beam

Apr 01, 2026

OLT (Optical line terminal) | G-PON (Gigabit passive optical network ...

A gigabit passive optical network (G-PON) comprises optical line terminals (OLTs) and optical network units (ONUs), and Murata's

Dec 11, 2025

AI Data Center Upgrades 2025: Best 400G & 800G

Plan AI data center upgrades for 2025. Expert guide to selecting the best 400G and 800G

Nov 06, 2025

ZTE assists China Mobile in launching the world's first 400G QPSK

Shenzhen, China, 20 March 2024 - ZTE Corporation (0763.HK / 000063.SZ), a global leading provider of information and

Apr 13, 2026

ASEAN Emblem

The ASEAN Emblem represents a stable, peaceful, united and dynamic ASEAN. The colours of the

Sep 20, 2025

ASEAN Ten Countries Tariff Costs Active Optical Module 40G

Arista Optics Modules and Cables All interface speeds, from 1G to 400GE have connectivity options that include Direct Attach copper

Oct 23, 2025

Subsea Communication Cables in Southeast Asia: A Comprehensive

By treating undersea cables as critical infrastructure, Southeast Asian stakeholders can better manage geopolitical,

Apr 25, 2026

GPON Optical Line Terminal, 1U 4 Port – PPC Broadband | Product

PPC's GPON OLT meets the relative standard of ITU G.984.x and FSAN, which is a 1U rack-mounted device with one USB

Mar 05, 2026

Ultra Long Haul Network

A leading ASEAN service provider required a robust connection between five critical data centers across

Aug 04, 2025

National Policies and Projects Driving Fiber Expansion in APAC

Fiber expansion in APAC is gaining momentum, with national policies boosting broadband infrastructure to enhance

Jan 09, 2026

China Broadnet deploys 400g for all-optical transport capacity ...

Looking ahead, China Broadnet will drive the development of all-optical networks and ramp up the large-scale 400G

Jun 28, 2026

FS Community

Hier sollte eine Beschreibung angezeigt werden, diese Seite lässt dies jedoch nicht zu.

Jun 10, 2026

Optical line terminals

Our SDX 6000 Series of software-defined optical line terminals (OLTs) consists of open and disaggregated

May 19, 2026

World Bank Document

Network operations center Oman Broadband Organisation for Economic Cooperation and Development Optical Line Termination

Contact Us

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

Website: <https://www.chromadecksigns-eastrand.co.za>

Email: sales@chromadecksigns-eastrand.co.za

Phone: +32 2 318 5792

Address: Avenue Louise 500, 1050 Brussels, Belgium

This document is for informational purposes only. Specifications subject to change without notice.

