

cOS™ Pier Optical Line Terminal

FIBER BROADBAND HARDENED REMOTE OLT SHELF



Pier is a compact, powerful connectivity device for enabling fiber-to-the-x (FTTx) broadband services across extended distances.

The Pier optical line termination (OLT) shelf is part of the industry-leading Harmonic cOS™ virtualized broadband platform. The device strengthens the versatile cOS portfolio of edge devices with the ability to streamline network layout and design. With Pier, operators can scale quickly and efficiently to deliver high-speed internet in historically hard-to-reach communities.

The temperature-hardened, one-rack-unit Pier is designed to serve thousands of FTTx subscribers from data centers and remote outdoor cabinets. When utilized in conjunction with Distributed Access Architecture Switches (DAAS), including the Harmonic Wharf and the Harmonic Jetty, operators can span vast mid-mile links with fewer points of presence hosting telecommunication infrastructure.

Pier supports leading FTTx standards, including XGS-PON, Combo PON and GPON, making it the ideal platform to address both greenfield growth and brownfield upgrades. Optional high-power XGS-PON optics extend last-mile reach to 60km from each device. For high-density regions, Pier offers dual-density PON optics that power two service groups simultaneously from a single physical port so operators can utilize less equipment, power and space.

The modular, stackable design provides a scalable solution for cost-effectively supporting apartments, small sites and large aggregation hubs with hundreds of active PON ports.

Harmonic's virtualized cOS core software enables centralized management, monitoring and routing. The solution provides an overall superior economic solution with low power consumption, unparalleled scalability and native quality-of-service capability. The Emmy Award-winning virtualized cOS core provides support for Pier alongside Harmonic's node-based OLT modules and Remote PHY devices, giving broadband service providers the ability to deploy high-speed broadband services anywhere, across an array of network types with minimal operational overhead. Support for third-party optical network terminals (ONT) and optical network units (ONU) ensures operators have access to the latest consumer premise equipment and best-in-class gateways.

Key Benefits

- Dual-density and high-power optics expand service areas and optimize use of space in telecommunication equipment sites
- Support for XGS-PON, GPON and Combo PON enables streamlined solutions to serve greenfield and brownfield market requirements
- Compact, modular, stackable form factor cost-effectively scales down for small remote sites and up for massive aggregation hubs
- Extended temperature rating for use in outdoor cabinetry and equipment closets
- Third-party ONT & ONU support provides operators flexibility to select industry-leading in-home devices options

HIGHLIGHTS

- Up to 32 GPON or XGS-PON ports, or 16 Combo PON ports, per 1 RU
- 225mm depth
- Modular chassis architecture
- Highly scalable and stackable
- Versatile deployment options
- High-power, long-range XGS PON optics