

ADTRAN

6010

SDN Programmable 16 Port GPON OLT

SDX Series



Benefits

- Supports High-capacity, Open, Programmable Networks
- Supports Residential, Cloud and Enterprise Services
- Supports both IPTV and RF Overlay Video Service
- Part of ADTRAN's Extensive and Growing Family of SD-Access Devices

Overview

ADTRAN Next-Generation PON OLTs are open, programmable and scalable access devices that support GPON access interfaces. These OLT access devices are part of ADTRAN's next-generation, data center optimized aggregation architecture that aligns with the forward-looking industry trend to build massively scalable and open systems.

Open, Programmable, Scalable

Being built around an open architecture, these OLTs can be aggregated by any high-density aggregation system, including ADTRAN's Nx100G next-generation OLT aggregation switches. From a programmability perspective, these OLTs have open APIs that utilize standard NETCONF/YANG interfaces for all management functions, easing the integration into an SDN-controlled environment. For scalability, they are built around a "pay-as-you-grow" architecture where you simply add GPON/NGPON OLTs as needed without the upfront investment or system constraints of a big iron-chassis system. In addition to being open, programmable and scalable, all embedded software functions in the OLT, ranging from ONT management, PON provisioning and IGMP processing, are virtualized and can be hosted on an external server to enable massive scalability and avoid the system constraints of embedded processing systems.

High-Performance with Flexibility

These OLTs offer non-blocking Nx40 uplink interfaces with embedded redundancy options to ensure that they can scale to support next-generation residential, business and backhaul services.

ADTRAN's GPON access device supports 16 GPON interfaces for 2.5/1.25G. This solution provides an ultra-flexible, high-capacity architecture with support for up to 128 users per PON.

These OLTs offer all of the carrier-class features (i.e., ONT management, clocking, VLAN tag manipulation, resiliency, etc.) of a traditional chassis-based OLT system, but with much more flexibility, scalability, and an open architecture that cannot be matched by a closed, vendor-specific chassis system.



16 Port GPON OLT

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Product Specifications

Front Panel Interfaces

- 16 1.25G/2.5G GPON Interfaces
- 2x QSFP+ Interfaces
- 4x SFP+ Interfaces

Performance

- Non-blocking Uplinks Capacity with 80G to ToR Switch

Environment

- **Operating Temperature:** -40°F to 149°F (-40°C to 65°C)

Physical

- **Chassis:** 1U, 19-inch Rack Mountable Metal Enclosure
- **Dimensions:** 17.3" x 1.7" x 11.8"
(439mm x 43mm x 300mm)
- **Power Supply:** -48VDC with redundant feed
- **Redundancy:**
 - ◆ Hot-swappable Power Supplies
 - ◆ Hot-swappable Fans

Capacities

- Capable of up to 128 ONTs per GPON Interface

Management

- Mosaic Cloud Platform
- NETCONF/YANG
- Remote Management Through SSH
- Local Ethernet and USB Interfaces for Management
- OMCI to ONTs

GPON Optics

- Class B+ and Class C+ Compliant as specified in G984.2 Amendment 1 and 2
- 20 km Reach with 64x Split
- 30 km Reach with 32x Split
- 37 km Reach with 16x Split

Regulatory Standards

- FCC Part 15 Class A
- NEBS
- GR-1089 Core
- GR-63 Core
- CE marking
- EN60950-1
- RoHS 6 of 6

Ordering Information

Equipment	Part No.
ADTRAN SDX 6010-16-port GPON OLT	11971305F1
ADTRAN SFP GPON 2.5G 1.25G 30km	1442530G1
DAC QSFP+ 40G 3m	1445012F3C



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