

ADTRAN

6320-16

SDN Programmable 16-Port 10G PON/GPON OLT SDX Series



Benefits

- Offers 16 SFP+ ports that support XGS-PON, XG-PON1 or GPON (per port basis)
- Supports High-capacity, Open, Programmable Networks
- Supports Residential, Cloud and Enterprise Services
- Supports both IPTV and RF Overlay Video Services
- Offers front access ports
- Supports Extended Range Optics (up to 62.5km) Enhancing Gigabit Service Reach
- 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 or 10G PON 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

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/10G PON 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, including 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 Nx40/100G uplink interfaces with embedded redundancy options to ensure the scale to support next-generation residential, business and backhaul services.

The ADTRAN 6320-16 combo xPON OLT device offers 16 SFP+ interfaces that support GPON (2.5G/1.25G), XG-PON1 (10G/2.5G), XGS-PON (10G/10G) or GPON and XG-PON1/XGS-PON simultaneously on each port depending on the optics used.

The ADTRAN SDX6000 Series 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.



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Product Specifications

Front Panel Interfaces

- 16 SFP+ Interfaces
- 4x QSFP+ Interfaces
- 4x SFP+ Interfaces

Performance

- Non-blocking Uplinks
- Up to 400 Gbps 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 10.2"
(439mm x 43mm x 260mm)
- **Power Supply:** -48VDC with Redundant Feed
- **Redundancy:**
 - ◆ Redundant DC Inputs
 - ◆ Hot-swappable Fan

Capacities

- Supports Up to 128 ONTs Per xPON Interface

Management

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

Optics

- Class B+ and Class C+ Compliant as Specified in G984.2 Amendment 1 and 2
- Class N1 and Class N2 Compliant as Specified in G.9807.1
- Combo Optics with Both GPON and XG-PON/XGS-PON with Integrated Co-existence Element

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 SDX6320-16 10G PON/GPON Combo OLT	11971325F1



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