

ADTRAN

6320-16

16-Port 10G PON/GPON OLT
SDX Series



Benefits

- GPON, XG-PON1, XGS-PON or GPON and XG/PON1/XGS-PON simultaneously (on each port, depending on optics)
- 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 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 400 Gbps 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.



Product Specifications

Front Panel Interfaces

- 16 SFP+ Interfaces
- 4x QSFP28 Interfaces
- 4x SFP+ Interfaces

Performance

- Non-blocking Uplinks
- Non-blocking Uplink Capacity up to 400 Gbps using Link Aggregation (LAG)
- G.8032 ERPS Ring Support

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

PON Technology

- GPON per ITU-T G.984
- XGS-PON per ITU-T G.9807
- Dynamic Bandwidth Allocation (DBA)
- Type B Redundancy
- Rogue ONT Detection

Subscriber Service Delivery

- Triple-play - voice, video, and data
- IGMP snooping and proxy with fast channel change

- DHCP relay
- PPPoE intermediate agent
- Proxy ARP

Layer 2 and Traffic Management

- 802.1q and 802.1ad VLAN manipulation, 802.1p CoS
- Hierarchical QoS and flexible scheduling
- Rate shaping per service
- TR-156 compliant user security
- Type B PON redundancy

Management

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

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

ADTRAN SDX6320-16 10G PON/GPON Combo OLT

Part No.

11971330F1



Pulse Supply
909 Ridgebrook Road., Sparks, Maryland 21152, USA
TEL : +1-410-583-1701 FAX : +1-410-583-1704



E-mail: sales@pulsesupply.com
<https://www.pulsesupply.com/adtran>

611971330F1-8B

September Copyright © 2019 ADTRAN, Inc. All rights reserved. ADTRAN believes the information in this publication to be accurate as of publication date, and is not responsible for error. Specifications subject to change without notice. ADTRAN® and the other trademarks listed at www.adtran.com/trademarks are registered trademarks of ADTRAN, Inc. or its affiliates in various countries. All other trademarks mentioned in this document are the property of their respective owners.

ADTRAN warranty duration and entitlements vary by product and geography. For specific warranty information, visit www.adtran.com/warranty.

ADTRAN products may be subject to U.S. export controls and other trade restrictions. Any export, re-export, or transfer of the products contrary to law is prohibited. For more information regarding exportation of ADTRAN items (e.g. commodities, technology, software), please visit www.adtran.com/exportlicense.



ISO 9001
ISO 14001
TL 9000