

# SDX 630 Series

## XGS-PON Optical Network Terminals (ONTs)



10 Gigabit



Zero-Touch



Analytics



VoIP



Enabled

## Benefits

- **Deliver Cost-Effective Converged Residential and Business Services**
- **Zero-touch Service Provisioning Eliminates Truck Rolls for Service Upgrades**
- **Manage an End-to-End PON Deployment with Productivity Tools for Monitoring, Troubleshooting, Provisioning, and Upgrading Networks**
- **Traffic Management Through Priority Queueing, Scheduling, Policing, and Traffic Shaping**
- **Uniquely Supports SFU, SBU, and MDU Deployments Streamlining Installation Procedures**
- **Key Part of Wireless Residential Gateway Deployment Strategy**

## Overview

**The Adtran SDX 630 Series of XGS-PON Optical Network Terminals (ONTs) are designed to address the market with industry-leading voice, data, and video capabilities.** Service providers will benefit from the high data rates of fiber optic transmission and the flexibility offered by Adtran's portfolio of Ethernet-based technology. In addition, these solutions support demanding residential and business gigabit services, cloud services, and remote work.

Expanding network capability requires next-generation 10G architectures. These architectures offer both the capacity and scale to economically support gigabit services and multi-gigabit demands well into the future. The SDX 630 Series provides a path to high-bandwidth applications. This enables service providers to support existing FTTH subscribers while delivering the price needed for mass-market residential and business applications.

Adtran offers a comprehensive portfolio of XGS-PON ONTs for single-family unit (SFU), small- to medium-sized business (SMB), and enterprise deployments. In addition, service providers are offered an array of options to address all subscriber utilization needs, from the growing smart home to the small business startup.

## SDN-Ready Solution

Additionally, the operational cost and complexity to connect a FTTP subscriber can be further reduced to accelerate the expansion of gigabit broadband services. Adtran 630 Series ONTs support provisioning through modern, open APIs, facilitating deployment in next-generation, SDN-based management systems. This, in concert with accelerated mass-market electronics and optics pricing, ensures that cost-sensitive residential broadband will be viable via 10G PON technologies. 630 Series ONTs also support OMCI provisioning, bridging the gap between current and next-gen software-defined access (SD-Access) networks.

The SDX 630 Series of ONTs work in concert with Mosaic One, Adtran's intelligent Software as a Service (SaaS) management suite. Mosaic One helps to accelerate the expansion of gigabit broadband services through zero-touch service activation and unmatched network analytics and visibility. Experience the benefits of end-to-end network management with Mosaic One and deliver an exceptional subscriber experience.

# SDX 630 SERIES

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## Product Specifications

### Ethernet Interfaces

- Ethernet Port Auto-Negotiation or Manual Configuration
- MDI/MDIX Automatically Sense
- Hardware Priority Queues on the Downstream Direction

### Ethernet Service Support

- 802.1D Bridging
- 802.1x Authentication
- Eight Queues, Strict Priority and/or Weighted Fair Queue Schedulers
- Configurable to EtherType and TPID for Service Flexibility
- VLAN IDs 0 – 4095; EVC Configurable in the Range of 2 – 4,094
- Virtual Switch Based on 802.1q VLAN
- VLAN Tagging/Untagging
- VLAN Stacking (Q-in-Q) and VLAN Translation
- Class of Service Based on VLAN-ID, 802.1p Bit
- Marking/Remark of 802.1p
- Supports 9k Jumbo Frame
- DHCP Client or Static IP Configuration

### OAM

- OMCI (Embedded Operations Channel Interface) per ITU-T G.988 and Open OMCI standards
- 15 min rolling counters
- Dying gasp alarm

### LEDS

- Power
- LAN
- Optical
- Alarm

### Video Service Support

- Mediaroom Bridged Video Models
- Minerva Bridged Video Models
- IGMP v2/v3 Snooping

### Voice Service Support

- ANSI/ETSI FXS Interfaces
- SIP Softswitch Support
- MGCP Support (Future)
- Configurable Dial Plan
- Configurable Country Specific Ring-back Tones (Frequency and Cadence)
- Optional Metallic Loop Testing
- T.38 Fax
- Echo Cancellation

### Regulatory Standards

- Supported Regions: US, Canada, Mexico, EU, UK, Australia, New Zealand
- Electromagnetic Compatibility
  - FCC Part 15 Class B
  - EN 300 386
  - EN 55022
  - AS/NZS CISPR 22 Class B
- Safety
  - UL/CUL 62368-1
  - IEC 62368-1
  - EN 62368-1
  - AS 62368.1
- Environmental
  - ETS 300 019-2-3 Class 3.1 – Environmental conditions and test for telecommunications equipment
  - EN 300 019-1-2 Class 2.3 –Transportation
  - EN 300 019-1-1 Class 1.2 – Storage
- Laser Approvals
  - IEC 60825-1:2014
  - Safety of laser products – Part 1: Equipment classification and requirements
- CE marked 93/68 EU
- European Union CE Mark Declaration of Conformity
- Restriction of Hazardous Substance
- Energy Efficiency ErP Directive
- European Union Code of Conduct
- Enhanced ITU-T K.21

## Product Specifications

Feature	630	631	631q	632v
Access Technology	XGS-PON	XGS-PON	XGS-PON	XGS-PON
Application	MDU/Small Business	Residential	Residential	Residential
Environment	Indoor 0C to +50C	Indoor 0C to +50C	Indoor 0C to +50C	Indoor 0C to +50C
FXS Interfaces				1
2.5G Ethernet Interfaces (100M/1G/2.5G)			1	1
10G Ethernet Interfaces (1G/2.5G/5G/10G)	SFP+ Pluggable	1		1
Additional Features	SFP+ ONT	UPS/BBU Capable	UPS/BBU Capable	UPS/BBU Capable
BOSA Wavelength	1577/1270	1577/1270	1577/1270	1577/1270
MTU	9216 Bytes	9216 Bytes	9216 Bytes	9216 Bytes
Mounting Options	SFP+ Cage	Desk/Wall Fiber Tray Wall Mount	Desk/Wall Fiber Tray Wall Mount	Desk/Wall Fiber Tray Wall Mount
Dimensions (DxWxH)	80.0 x 18.1 x 15.2 mm	110.4 x 88.8 x 35.96 mm	110.4 x 88.8 x 35.96 mm	155.5 x 135.5 x 35.96 mm
Weight	55 g	0.75 lbs / 0.3 kg	0.75 lbs / 0.3 kg	0.75 lbs / 0.3 kg
Relative Humidity	5 to 95% non-condensing	5 to 95% non-condensing	5 to 95% non-condensing	5 to 95% non-condensing



Fiber Access Service Area



Customer Access Area  
with Fiber Shield



Installed Fiber Tray

# SDX 630 SERIES

## Ordering Information

Equipment		Part No.
SDX 630	XGS-PON SFP+ ONT	1287940F1
SDX 631	10GE XGS-PON ONT	1287930Fx*
SDX 631q	2.5GE XGS-PON ONT	1287944Fx*
SDX 632v	10GE/2.5GE XGS-PON ONT with VoIP	1287943Fx*
<i>*ONTs available in NA (F1), UK (F2), EU (F3), and AUS/NZ (F4) versions</i>		
Accessories		
SDX 631 Fiber Tray		1287440F1
SDX 631q Fiber Tray		1287444F1
SDX 632v Fiber Tray		1287443F1
SDX 630 Series UPS/BBU ONT Wall Mount (UPS/BBU Sold Separately)		1287475F1
12 VDC ONT UPS/BBU with 8-pin Telemetry Cable		1287480Fx*
7-pin Phoenix to Barrel Adapter Cable		1287406F3

*\*Accessories available in NA (F1), UK (F2), EU (F3), and AUS/NZ (F4) versions*

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