ADTRAN

SDX Series

611

GPON Simple ONT

Gigabit · **SDN Enabled** · **Zero-Touch** · **Service Automation**

Benefits

- **Uniquely supports SFU, SBU, and MDU deployments streamlining installation procedures**
- **Key part of a wireless residential gateway deployment strategy**
- **Zero-touch service provisioning eliminates truck rolls for service upgrades**
- **Traffic management through priority queuing, scheduling, policing and traffic shaping**

Overview

Today carriers are dealing with increasing competition, operational costs, and demand for bandwidth. To address these concerns, ADTRAN® offers a complete suite of fiber access solutions. These solutions enable carriers to compete more cost effectively while expanding broadband services to unserved and underserved areas, like those targeted by national broadband initiatives.

Delivering Cost-Effective Converged Residential and Business Services

In a typical indoor ONT deployment, many Ethernet ports are left unused because users migrate to more wireless connections off of a separate residential gateway versus wired Layer 2 connections. The 600 Series of ONTs offers a simpler and more cost-effective architecture that enables service providers to reduce the number of devices they deploy and manage. Simple ONTs leverage fewer ports while retaining all of the data and video functionality expected from a carrier-class product.

In addition to a simplified and cost-effective architecture, the 611 Series of ONTs allows service providers to leverage existing residential gateway vendors that they have depended on for years. We have watched the wireless market continuously evolve over the years. There is no end in sight for wireless evolution, and these simple ONTs allows service providers to easily keep up without unnecessarily replacing the ONT or sending a technician to the home.

The ultra-compact size of 611 ONTs enables easy and inconspicuous wall mounting right where the fiber enters the home, significantly limiting the amount of indoor fiber routing. Since the ONT and residential gateways are separate devices, the residential gateway can be located in a central location to provide consistent wireless coverage throughout the home without requiring fiber all the way to this location.

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 600 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. 600 Series ONTs also support OMCI provisioning, bridging the gap between current and next-gen software-defined access (SD-Access) networks.

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Product Specifications

Ethernet Interfaces

- RJ-45 for 10/100/1000Base-T
- 1 Gbps LAN
- Ethernet Port Auto Negotiation or Manual Configuration
- MDI/MDIX Automatically Sense
- Hardware Priority Queues on the Downstream Direction in Support of CoS

Ethernet Services 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/Detagging
- VLAN Stacking (Q-in-Q) and VLAN Translation
- Class of Service Based on VLAN-ID, 802.1p Bit
- Marking/Remarking of 802.1p

Mosaic Application Support

- Mosaic Activate
- Mosaic Subscriber Insight

Working Environment

- **Temperature:** 32° F to 104° F (0° C to +40° C)
- **Relative Humidity:** 5% to 95%, Non-condensing

Network Interface

- GPON optical interface BOSA on Board (BoB)
- Compliant with ITU-T G.984.2 GPON standards
- Class B+ optics support

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
- Status

Regulatory

- ETSI EN 300 019-1-3.cl3.2 (V2.3.2) for ONT and power supply
- ETSI EN 300 119 for ONT and power supply
- ETS 300 753 for ONT and power supply
- CISPR 32 Class B
- FCC CFR 47 Part 15 Class B

Ordering Information

Equipment	Part No.
ADTRAN 611 GPON Simple ONT	1287933F1