

ADTRAN

633

10G-EPON SFP+ ONU



## Benefits

- Cost-effective delivery of symmetric multi-gigabit services
- Key part of a wireless residential gateway deployment strategy
- Traffic management through priority queuing, scheduling, policing and traffic shaping

## Overview

The ADTRAN 633-0 (633) 10G EPON SFP+ optical network unit (ONU) is a key component of the ADTRAN 10G-EPON fibre access portfolio, allowing cable MSOs to expand their distributed access architecture (DAA) and FTTH strategies from residential broadband delivery to supporting lucrative enterprise broadband services.

The 633 10G-EPON SFP+ ONU is the industry's first 10G-EPON pluggable on the market. The 633 10G-EPON SFP+ ONU delivers SLA-based symmetric 1/2.5/5/10G services over an optical distribution network, offering a cost-effective and yet highly capable Carrier Ethernet service alternative. The 633 10G-EPON SFP+ ONU preserves space and power, alleviating the need for a physical dual box solution, encompassing both the ONU and demarcation device in a pluggable. With built-in support for DOCSIS provisioning over EPON (DPoE), the 633 10G-EPON SFP+ ONU can quickly and easily integrate with an MSO's existing infrastructure, speeding time-to-market for new fibre-based service deployments.

# ADTRAN 633

## Product Specifications

### Dimensions

- 87.5 mm x 15.6 mm x 13.75 mm (L x W x D)

### Power

- Power Consumption: < 2.8W

### Working Environment

- Operating Temperature: -40° F to 185° F (-40° C to +85° C)
- Humidity: 5% ~ 95% relative humidity, non-condensed

### Safety & EMI

- CE compliant
- FCC/UL compliant

### PON Interface

- Compliant with IEEE 802.3av and SIEPON
- IEEE 1904.1 standards
- SFF type laser, SC/UPC connector
- 10G bps Burst Mode Upstream Transmitter
- 10G bps Downstream Receiver
- Compliant w/ IEEE 802.3av PR-30 PHY
  - ◆ 15 to 29dB Channel Loss
- Wavelengths:
  - ◆ US 1260nm to 1280nm, DS 1575nm to 1580nm

### PON Features

- Multiple LLIDs per device
- Flexible mapping between traffic priority and LLID
- Multicast LLID and IGMP/MLD support
- Link Security
  - ◆ AES-128 (DS/US))
  - ◆ MACSec
  - ◆ FEC (Forward Error Correction) (DS/US)
  - ◆ DBA reporting – 1-8Queue, 1-2Qsets
  - ◆ 802.1p mapper service profile

### Ethernet Interface

- SFP+ based 10GBase-X GbE interface
- Hardware priority queues on the downstream direction in support of CoS
- 802.1D bridging
- Virtual switch based on 802.1q VLAN
- VLAN tagging
- VLAN stacking (Q-in-Q) and VLAN Translation
- IP ToS/DSCP to 802.1p mapping
- Class of Service based on VLAN-ID, 802.1p bit, ToS/DSCP
- Marking/remarking of 802.1p
- Broadcast/Multicast rate limiting
- Jumbo Frame Support

### OAM

- Standard compliant OAM (the embedded operations channel) interface as defined by IEEE 802.3av, IEEE 1904.1, DPOEv2.0
- Remote software image download, service activation and reset
- Supports two SW Images
- SW integrity checking w/auto rollback



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