

Product Description:

The Precision XGS-PON ONT (PXGONT) is designed to deliver triple-play services to subscribers in Fiber-to-the-Home/Premise applications. The PXGONT incorporates interoperability, key customers' specific requirements and cost-efficiency. Equipped with ITU-T G.9807.1 compliant 10G Downstream and 10G Upstream XGS-PON interface, it supports full Triple Play of services including voice, video, and high-speed internet access service. Compliant with standard OMCI definition, the PXGONT is manageable at remote side and supports the full range FCAPS functions including supervision, monitoring and maintenance.



Product Features:

Data

- 10G Base-T, and one 10/100/1000 Base-T Ethernet data interfaces
- Auto-negotiation and MDI/MDIX auto-sensing
- Built-in layer-2 switch.
- Advanced data features such as VLAN tag manipulation, classification, and filtering

Video

- Supports multicast and unicast data
- Dedicated Multicast XGEM port on downstream, video contents are received and processed by all the ONTs through the unified channel, greatly improving bandwidth efficiency
- Supports IGMP snooping function which when enabled, ONT monitors the member joining and leaving activities at the Ethernet service port, and then selectively delivers the multicast streams

Product Applications:

- Triple play services for FTTH/Premise

Standards:

- FCC/ETL compliant
- CE compliant

General Specifications

Dimensions

- 215mm*110mm*40mm(H*W*D) (with bracket)
- 150mm*110mm*30mm(H*W*D) (without bracket)

Power Supply

- +12V (feed via external AC/DC adapter)
- 2-PIN power adaptor input
- Dying Gasp support
- Power switch
- Power Consumption: less than 10W

Working Environment

- Temperature: -5°C ~ 45°C
- Humidity: 20%~ 80% relative humidity

Installation

- Desktop mounting (without bracket)
- Vertical and wall mounting

PON Interface

- Compliant with ITU-T G.9807.1 XGS-PON standards
- On-board optics
- 10 Gbps Burst Mode Upstream Transmitter
- 10 Gbps Downstream Receiver
- Compliant with ITU-T G.9807 Class N1
- +4dBm ~+9dBm launch power, -28dBm sensitivity, and -9dBm overload
- Wavelengths: US 1260nm to 1280nm, DS 1575nm to 1580nm

PON QoS

- Multiple T-CONTs per device
- Multiple XGEM Ports per device
- Flexible mapping between XGEM Ports and T-CONT
- Activation with automatic discovered SN and password in conformance with ITU-T G.9807.1
- AES-128 Decryption with key generation and switching.
- FEC (Forward Error Correction) in both directions
- DBA reporting

- 802.1p mapper service profile on U/S
- Mapping of XGEM Ports into a T-CONT with priority queues based scheduling.
- Support Multicast XGEM port and incidental broadcast XGEM port.

Ethernet Interface

- 10GBase-T interface with RJ-45 connectors, compatible with 5GBase-T, 2.5GBase-T and 1GBase-T
- Optional 10/100/1000Base-T interface with RJ-45 connector
- Ethernet port auto negotiation or manual configuration
- MDI/MDIX automatically sense
- Hardware priority queues on the downstream direction in support of CoS
- 802.1D bridging
- VLAN tagging/detagging per Ethernet port
- VLAN stacking (Q-in-Q) and VLAN Translation
- IP ToS/DSCP to 802.1p mapping
- Class of Service based on UNI, VLAN-ID, 802.1p bit, and combination
- Marking/remarking of 802.1p
- IGMP v2/v3 snooping and IGMP snooping with proxy report
- Broadcast/Multicast rate limiting.

OAM

- Standard compliant OMCI (the embedded operations channel) interface as defined by ITU-T G.988
- Alarming and AVC report, performance monitoring
- Remotely software image download over OMCI, as well as activation and rebooting
- Hold two software sets with software image integrity checking and automatic rollback
- Support TR-069 and TR-181 (optional)

Product Ordering Information

Product	10G Base-T	10/100/1000 Base-T Interface
OP-XGS-ONT-N1	1	0
OP-XGS-ONT-N2	1	1