

## Indoor Single Family Unit GPON ONT for data services

- ✓ *Standard ITU G.984 GPON*
- ✓ *Triple-Play QoS*
- ✓ *Multicast video*



Zhone's indoor residential GPON ONT are standards-based CPE designed for advanced triple-play deployments. The indoor models in Zhone's zNID product line of ONT's provide a lower cost alternative to outdoor ONT solutions. The small package contains many features including QoS and multicast video support.

The zNID ONT is only one component in the PON network. Zhone provides the entire FTTx solution to our customers including the OLT, splitters, cabinets, and the ONT.

2501 indoor ONT is designed for high performance applications. It features a 100/1000Mbps LAN Port in a compact enclosure for indoor use. 2501 may be installed as a desktop or, wall mounted and is powered via an AC Adaptor.

2501 ONT is ideal for triple-play service deployments in Fiber-to-the-Home/Premise application.

Compliant with standard OMCI definition, 2501 is manageable at remote side and supports the full range FCAPS functions including supervision, monitoring and maintenance.

Zhone provides the complete PON solution: ONT, OLT, splitter, EDFA, RF Transmitters, and cabinet solutions are available from Zhone because our customers want to buy a complete and fully tested solution from one trusted source.

## Technical Specifications

### Dimensions

- 140mm x 100mm x 35mm

### Power

- Input: 110/240V AC Adaptor (12 VDC)
- Power Consumption: 7-10W
- Dying Gasp Support

### Interfaces

- GPON: SC/APC Connector
- 1.244Gbps Burst Mode Upstream Transmitter (1310nm)
- 2.488Gbps Downstream Receiver (1490nm)
- Data: 1x 10/100/1000 Base-T Ethernet

### Standards Support

- ITU-T G.984 compliant

### Protocol Support

- GPON
- Fully ITU-T G.984 compliant framing
- Multiple T-CONTs per device
- Multiple GEM Ports per device
- Support Single T-CONT mode and Multiple T-CONTs mode
- Flexible mapping between GEM Ports and T-CONT
- Activation with automatic discovered SN and password in conformance with ITU-T G.984.3
- AES-128 Decryption with key generation and switching
- FEC (Forward Error Correction)
- 802.1p mapper service profile on U/S
- Mapping of GEM Ports into a T-CONT with priority queues based scheduling
- Support for Multicast GEM Port
- Ethernet / IP
  - Bridging and switching (802.1D / 802.1 Q)
  - Four traffic classes with 802.1p
  - 802.3n flow control
  - Up to 256 MAC address entries
  - VLAN tagging / untagging
  - VLAN stacking (Q-in-Q)
  - MAC limiting
  - 802.1x Ethernet Authentication
- IPTV
  - IGMP multicast
  - IGMP snooping

### Management

- OMCI complies with G.984.4

### Bandwidth/Distance

- Compliant with ITU-T G.984.2 Amd1, Class B+
  - 0.5~+5dBm launch power, -27 dBm sensitivity, and -8dBm overload

### Regulatory Compliance

- CE
- FCC Part 15 Subpart B
- ETL

### Operating Requirements

- Operating Temperature: -5C to 45C
- Operating Humidity: 5% - 90% non condensing
- Storage Temperature: -20C to 60C
- Storage Humidity: 5% - 95% non condensing

## Ordering Information

ZNID-GPON-2501-xx

Indoor GPON ONT, 1xGE, xx = NA, UK, EU power supply



Z H O N E

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