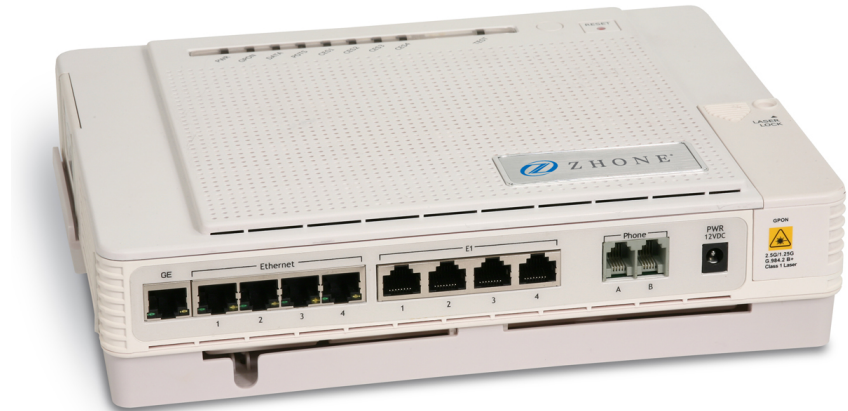


## GPON ONT for small business deployments.

- ✓ *Standard ITU G.984 GPON*
- ✓ *Indoor deployment*
- ✓ *Triple-Play QoS*
- ✓ *Multicast video*
- ✓ *E1 CES*
- ✓ *VoIP with CLASS 5 Features*



Zhone's indoor business GPON ONT is a standards based ONT designed with the needs of a small business in mind. E1 circuit emulation over IP allows traditional circuit services over a fiber network and Gigabit Ethernet port bring data services into the building.

The 5100 series of Zhone GPON ONT is a standards based GPON ONT designed for indoor deployment. The 5110 is designed for small business deployments providing 4 E1 interfaces that use standard PWE3 for circuit emulation over a packet network and one Gigabit Ethernet ports.

## Technical Specifications

### Dimensions

- 267 mm (10.5") W x 66 mm (2.6") H x 200 mm (7.9") D

### Power

- Input: 12 VDC
- Power Consumption: ~7.2 Watts

### Interfaces

- GPON
  - SC/APC connector
  - full ITU-T G.984 compliance
- GPON Tx
  - upstream data rate 1.25 Gbps
  - 1310nm optic
  - Output power: 0.5 to +5 dBm
- GPON Rx
  - Downstream data rate: 2.5 Gbps
  - 1490nm optics
  - Receiver Sensitivity: -27 dBm
  - Input power overload: -8 dBm
- Ethernet
  - RJ-45 Jack
  - 1x10/100/1000 Base-T
  - 4x10/100 Base-T
  - Meets IEEE 802.3 specifications
  - Auto-MDI/MDIX and auto speed supported
- POTS
  - 2xRJ-11 connector
- T1/E1
  - 4xRJ-48c connector

### Standards Support

- ITU-T G.984 compliant

### Voice Support

- SIP (RFC 3261)
- MEGACO (H.248)
- Codec: G.711 (u-law and A-law), G.729 (A and B)
- DTMF dialing
- 5 REN per line
- Echo cancellation
- Voice Activity Detection and Comfort Noise Insertion
- Caller ID, Call Waiting, Call Forwarding, Call Transfer, Three Way Calling, Distinctive Ringing
- G.711 fallback for FAX
- T.30 and T.38 FAX
- DHCP client or static IP configuration

### Protocol Support

- QoS
  - Ethernet bridging/switching per IEEE 802.1D/802.1Q
  - Traffic management (priority queuing and traffic shaping)
  - QoS with support for IEEE 802.1p + DSCP
- VLANs
  - Per port IEEE 802.1Q VLAN ID processing
  - VLAN tagging/untagging
  - VLAN Stacking (QinQ)
  - VLAN Switching
- IPTV
  - IGMP Snooping
  - VLAN support
- Layer 2
  - 802.3n flow control
  - Automatic MAC learning and aging
  - Support for up to 256 MAC address entries
  - MAC limiting
  - Broadcast storm control
- E1
  - Pseudowire Emulation End to End (PWE3)
  - Structure Agnostic or Structure Aware
  - Network timing, Adaptive timing, Loop timing

### Management

- OMCI complies with G.984.4

### Regulatory Compliance

- CE

### Operating Requirements

- Temperature: -5°C - +45°C
- Humidity: 5 ~ 90% relative humidity

## Ordering Information

ZNID-GPON-5110-EU	Indoor GPON ONT, 1xGE, 4xT1/E1, 2xPOTS, 4xE1, EU power supply
ZNID-GPON-5110-UK	Indoor GPON ONT, 1xGE, 4xT1/E1, 2xPOTS, 4xE1, UK power supply

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**For more information about Zhone and its products, please visit the Zhone Web site at [www.zhone.com](http://www.zhone.com) or e-mail [info@zhone.com](mailto:info@zhone.com)**

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