

## GPON ONU with 24 Ethernet ports designed for MDU applications

- ✓ *Standard ITU G.984 GPON*
- ✓ *Triple-Play QoS*
- ✓ *Built-in Layer-2 switch*



Zhone's Multi-dwelling unit (MDU) GPON ONT is a standards based CPE designed for advanced triple-play deployments. 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.

8224 MDU ONT is designed for high performance applications. It features 24 10/100Mbps Ethernet Ports in a 1U high form factor. 8224 may be rack mounted and is powered via a 3-pin AC cord.

8224 ONT is ideal for triple-play service deployments in Fiber-to-the-Building application. Each Ethernet port can connect to a Residential Gateway in each residence. Prioritization of packets is maintained through the ONT guaranteeing a high Quality of Experience.

Compliant with standard OMCI definition, 8224 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

- 44mm x440mm x280mm

### Power

- 3-PIN AC power connector
- Max 45 watts

### Interfaces

- GPON
- SC/APC connector
- Class B+ laser
- Launch power: 0.5 to +5dBm
- Sensitivity: -27dBm
- Overload: -8dBm
- Ethernet
- 24 10/100 Ethernet ports, RJ-48c

### Standards Support

- ITU-T G.984

### 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 / 802.1Q)
  - Four traffic classes with 802.1p
  - 802.3n flow control
  - Up to 512 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

### Regulatory Compliance

- CE
- Laser compliant to FCC 47 CFR Part 15, Class B and FDA 21 CFR 1040.10 and 1040.11, Class I
- ETL
- FCC Part 15 Subpart B

### Operating Requirements

- Operating temperature: -5C to +45C
- Operating humidity: 10 to 90% non-condensing

## Ordering Information

ZNID-GPON-8224-NA	MDU GPON ONT, 24 10/100BASE-T, NORTH AMERICA POWER CORD
ZNID-GPON-8224-EU	MDU GPON ONT, 24 10/100BASE-T, EURO POWER CORD
ZNID-GPON-8224-UK	MDU GPON ONT, 24 10/100BASE-T, UK POWER CORD

### Zhone Technologies, Inc.

7195 Oakport Street  
Oakland, CA 94621  
1 510.777.7000  
[www.zhone.com](http://www.zhone.com)

**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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