

## Indoor Gigabit zNID

- ✓ *Triple Play Services - IP Video, VoIP, High Speed Internet Access*
- ✓ *Full VLAN support with priority and QoS*
- ✓ *1 Gbps Bridging and Routing*
- ✓ *VoIP with CLASS Features*
- ✓ *Multicast Video*
- ✓ *Remote Management - Web GUI, ZMS CPE manager, CLI and SNMP*



The zNID-GE-22xx series of indoor ONT's provide an ideal solution for FTTH deployments. The indoor ONT's are standards-based CPE designed for advanced triple-play deployments. The device provides for many features such as QoS, multicast video, and voice. The ONT is designed for high performance applications. The gigabit interface uses SFP's for the ultimate in flexibility. The SFP can be either copper or optical. A wide range of Gigabit SFP's are available which support distances from 10 to 60 km.

The zNID-GE-2244 model has four voice ports, and the 2284 model has eight voice ports. Each model has four Ethernet ports that can be configured for bridging or routing. All Ethernet ports support full VLAN priority and QoS.

### Voice Features

The zNID provides voice service with either 4 or 8 voice ports on the unit. The zNID uses SIP or MGCP. All the major voice features are supported. This includes features such as three-way-calling, caller ID, distinctive ringing, T.38 fax, and V.90 modem.

### Gateway Features

The zNID is a full-featured gateway with integrated DHCP server, ALG's, NAT Router, PPPoE Client, scheduling, comprehensive logging, and more. The zNID product line implements a very flexible QoS allowing the service provider to guarantee that services are being prioritized correctly and the end-user is getting the Quality of Experience that is expected.

The indoor zNID is designed for high performance applications. It features one Gigabit Ethernet port and three Fast Ethernet ports, in addition to the 4 or 8 voice ports.

The zNID has full VLAN support with QoS. The packets in the VLANs are prioritized based on the IEEE 802.1p priority bits. In addition, each VLAN can be rate limited.

The zNID supports prioritization at the higher layers through the use of the Diffserv bits (RFC2474, RFC2475).

### Management

The zNID has intuitive Web and command line interfaces. The zNID is also managed by the Zhone Network Management System (ZMS), using SNMP. Software upgrades and configuration backups can be handled automatically by the ZMS using the CPE Manager feature.

## Technical Specifications

### Dimensions

- Complete Enclosure
- 2 in. H x 8.7 in W x 6.1 in D
- 5 cm H x 22 cm W x 16 cm D

### Weight

- 1.0 lb (0.45 kg)

### Power

- 12 VDC (DC Models)
- 100-240 VAC 50/60 Hz (AC Models)
- Max Power: 15W

### Interfaces

- 1x Active Ethernet Gigabit (SFP)
- 4x or 8x RJ11 FXS
- 1x RJ45 10/100/1000Base-T
- 3x RJ45 10/100Base-T
- 1 USB Craft Port

### Standards Support

- IEEE 802.3 Ethernet
- IEEE 802.1Q/p VLANs
- IEEE 802.3u Fast Ethernet
- IEEE 802.3ab 1000Base-T

### Voice Support

- SIP
- SIP-PLAR
- MGCP
- Codec Support: G.711, G.726, G.729a
- Major CLASS features supported
- Three way calling, distinctive ringing
- 5 REN per port

### Protocol Support

- DHCP Server, DHCP Client
- IP Routing and Bridging
- NAT
- PPPoE Client
- Virtual LAN bridging (VLAN)
- Firewall and Security
- QoS
  - 802.1P/Q prioritization
  - Diffserv (RFC2474, RFC2475) marking and queuing
  - Traffic shaping – bandwidth management and rate limiting
- IPTV
  - IGMP Multicast
  - IGMP Snooping

### Management

- Web GUI
- ZMS (Zhone Management System) CPE Manager
- CLI
- SNMP

### Bandwidth/Distance

- 1 Gigabit (SFP)
- Up to 60 km (depending on SFP)

### Regulatory Compliance

- EMC: FCC Part 15 Class A, ICES-003 Class A, EN55022 Class A, EN55024
- Safety: UL60950-1, CSA C22.2 No. 60950-1, EN 60950-1
- CE Marking

### Operating Requirements

- Operating Temperature:
  - 0° C to 50° C (32° F to 122° F) (AC Models)
  - -40° C to +60° C (-40° F to 140° F) (DC Models)
- MTBF: greater than 100,000 hours

## Ordering Information

ZNID-GE-2204-xx	Indoor ONT, 1 GE, 3 FE (SFP Sold Separately) (xx-NA, EU, UK)
ZNID-GE-2244-xx	Indoor ONT, 4 Voice, 1 GE, 3 FE (SFP Sold Separately) (xx-NA, EU, UK, DC)
ZNID-GE-2284-xx	Indoor ONT, 8 Voice, 1 GE, 3 FE (SFP Sold Separately) (xx-NA, EU, UK, DC)
SFP-GE-BX10-1310-SLC	SFP GE BX(1000 Mbps) TX 1310nm, RX 1550nm, up to 10km.
SFP-GE-BX20-1310-SLC	SFP GE BX(1000 Mbps) TX 1310nm, RX 1550nm, up to 20km.
SFP-GE-BEX-1310-SLC	SFP GE BEX(1000 Mbps) TX 1310nm, RX 1550nm, up to 40km.
ZNID-BATT-IN-xx	ZNID Indoor Battery Backup Unit. (xx-NA, EU, UK)

**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)**

Zhone, the Zhone logo, and all Zhone product names are trademarks of Zhone Technologies, Inc. Other brand and product names are trademarks of their respective holders. Specifications, products, and/or product names are all subject to change without notice. Copyright 2011 Zhone Technologies, Inc. All rights reserved.