

GPON ONT with integrated intelligent gateway functionality.

- ✓ *Triple Play Services - IP Video, VoIP, High Speed Internet Access*
- ✓ *Two Step Easy Installation - Install fiber enclosure without the need for electronics. Electronics can be installed after services are ordered.*
- ✓ *Remote Management - Web GUI, ZMS (Zhone Manage System) CPE Manager, CLI or SNMP.*



The zNID is an intelligent NID supporting GPON termination with full-featured gateway functionality providing an ideal solution for FTTH deployments.

Triple Play services - IPTV, POTS or VoIP, and High Speed Internet Access (HSIA)

The zNID supports Gigabit Ethernet termination with full-featured gateway functionality providing an ideal solution for FTTH deployments.

The zNID-GPON-4226 is designed for outdoor single family deployments providing two voice lines and six Gigabit Ethernet ports.

Gateway Features

The zNID is a full-featured gateway supporting services such as DHCP server, ALG's, 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.

Enclosure

The enclosure can be installed in two stages for carriers wanting to terminate fiber before installing the active components. A small plastic enclosure can be installed first allowing the installer to terminate the fiber. Later, when the customer has ordered service, the active components are snapped into the fiber enclosure, allowing for a quick and easy installation.

Management

The zNID has a very intuitive Web interface. The zNID is also managed by the Zhone Network Management System (ZMS), using SNMP. Software upgrades, or configuration backups are handled automatically by the ZMS. The zNID can also be managed using OMCI, with Zhone's Smart OMCI tool.

Technical Specifications

Dimensions

- 12.7 in. H x 9.9 in. W x 3.8 in. D
- 32.2 cm H x 25.1 cm W x 9.7 cm D

Weight

- 3.5 lbs. (1.6 kg)

Power

- 12 Vdc
- Max Power: 12W
- Power options include:
 - Separate Indoor battery backup
 - Separate Outdoor battery backup
 - Standard 7-pin power and alarm connector.
 - Optional 2-pin power and alarm module.

Interfaces

- Uplink options:
 - SC/APC connector for GPON
 - OptiTap support
- Common interfaces:
 - 2x FXS
 - 6xRJ45 10/100/1000Base-T
- USB Craft Port

Standards Support

- IEEE 802.3 Ethernet
- IEEE 802.1Q/p VLANs
- IEEE 802.3u Fast Ethernet
- IEEE 802.3ab 1000 Base-T
- ITU-T G.984 (GPON)

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
- Virtual LAN bridging (VLAN)
- Firewall and Security
- QoS
 - CoS 802.1P/Q prioritization
 - ToS IP Precedence
 - 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

- GPON Interface with Class B+ optics (20km)
- 1310 nm
 - Launch Power:
 - Minimum 0.5 dBm
 - Average 2 dBm
 - Maximum +5 dBm
- 1490 nm
 - Sensitivity -28 dBm

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, EN60950-1
- Network: FCC Part 68, IC CS-03

Operating Requirements

- Temperature: -40°C to +60°C
- MTBF: greater than 100,000 hours

Ordering Information

ZNID-GPON-4226	Outdoor ONT, 2x Voice, 6x GE, with Fiber enclosure.
ZNID-GPON-4226-EL	Outdoor ONT, 2x Voice, 6x GE. Electronics only. Power and fiber enclosure sold separately.
ZNID-ENCL-422x	zNID-422x fiber termination enclosure. (Power and GPON electronics sold separately.)
ZNID-ENCL-422x-OPTITAP	zNID-422x OPTITAP fiber termination enclosure. (Power and GPON electronics sold separately.)
ZNID-ENCL-422x-STORAGE	zNID-422x Slack cable storage enclosure.
ZNID-BATT-IN-12V27W-xxxx-D	zNID indoor battery backup. xxxx = 003G, EU3G, NA3G, UK3G
ZNID-BATT-OUT-XX	zNID outdoor battery backup. XX = NA, EURO, UK