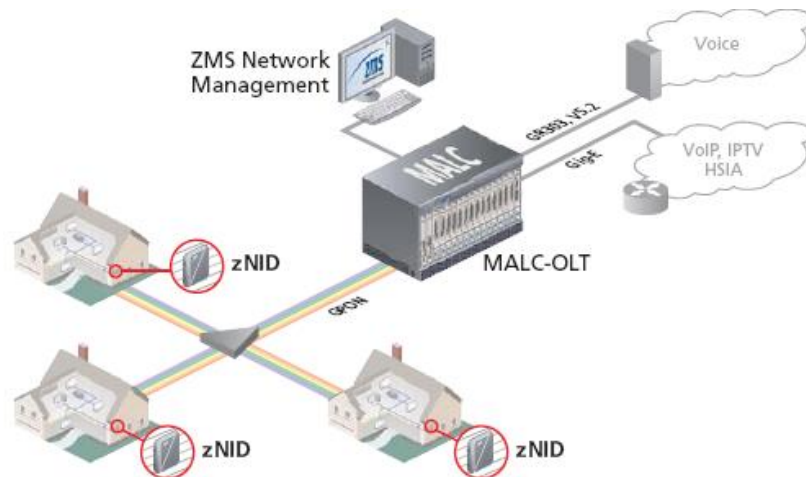# ZHONE   ZNID GPON 42xx

ZNID INTELLIGENT NID

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) - over existing Coax and/or Phone Line make Service Offerings and Installations flexible and easy.

- Triple Play Services – IP Video, VoIP, High Speed Internet Access
- No New Home Wiring - HPNA supported simultaneously on Coax and Phone Line eliminates the Need to run new Wires
- Two Step Easy Installation - Install Fiber enclosure without the Need for Electronics.
- Remote Management - Web GUI, SNMP, and TR-069, OMCI. (only 422x and 424x) and ZMS

DIMENSIONS	VOICE SUPPORT
Complete Enclosure (only 420x, 424x)	SIP
12.7 in. H x 9.9 in. W x 3.8 in. D	SIP PLAR (only 420x)
32.2 cm H x 25.1 cm W x 9.7 cm D	MGCP (only 422x, 424x)
WEIGHT	Codec Support G.711, G.723, G.726, G.729 (only 420x)
3.5 lbs. (1.6 kg)	Codec Support G.711, G.726, G.729 (only 422x, 424x)
POWER	VAD, Silence Suppression, comfort Noise Generation
12 Vdc	Major CLASS Features supported
Max Power: 15W	5 REN per Port
Power Options include: Outdoor Battery Backup, Indoor Battery Backup	**PROTOCOL SUPPORT**
The zNID supports the Standard 7-pin Power Connector.	GPON Uplink: ITU-T G.984 (GPON)

The zNID can be powered over an unused Phone Line Pair, from the Home, eliminating the Need to drill Holes and Pull thick Power Cables through Exterior Walls.	**MANAGEMENT**
	Web GUI
	SNMP
INTERFACES	TR-069
Uplink Options: SC/APC Connector for GPON, OptiTap Support	OMCI (only 422x, 424x)
Common Interfaces: 2x FXS (only 422x),	ZMS (Zhone Management System) (only 420x and 422x)
(only 420x, 424x) 2x FXS (SIP or SIP-PLAR)- HPNA over Phone Line shares Voice Line 1	**BANDWIDTH/DISTANCE**
	GPON interface with Class B+ Optics (20km)
2x RJ45 10/100/1000Base-T (only 422x, 424x)	1310nm:
3x RJ45 10/100Base-T (only 420x)	Launch Power: Minimum 0.5 dBm
1x Coax type F connector for HPNA	Average 2 dBm; Maximum +5 dBm
HPNA: First phone line (4202,422x,424x), Coax (4202,4203,422x,424x)	1490nm: Sensitivity -28 dBm
STANDARDS SUPPORT	**REGULATORY COMPLIANCE**
IEEE 802.3 Ethernet, IEEE 802.1Q/p VLANs	EMC: FCC Part 15 Class A, ICES-003 ClassA, EN55022 ClassA, EN55024
Network Applications (only 420x), DHCP Server, DHCP Client,	Safety: UL60950-1, CSA C22.2 No. 60950-1, EN 60950-1
IP Routing and Bridging, NAT	**OPERATING REQUIREMENTS**
Virtual LAN bridging (VLAN), Firewall and Security	Temperature: -40°C-60°C
QoS: 802.1P/Q Prioritization,	
Diffserv (RFC2474, RFC2475) Marking and Queuing	MTBF: greater than 100,000 Hours
Traffic Shaping – Bandwidth Management and Rate Limiting	

MODEL	DESCRIPTION
ZNID-GPON-4201	GPON ONT, Outdoor, 2x voice, 3x FE, with Fiber Termination Enclosure.
ZNID-GPON-4202	GPON ONT, Outdoor, 2x voice, 3x FE, HPNA-Coax, HPNA-Phoneline, with Fiber Termination Enclosure.
ZNID-GPON-4203	GPON ONT, Outdoor, 2x voice, 3x FE, HPNA-Coax, with Fiber Termination Enclosure.
ZNID-GPON-4220	Outdoor ONT, 2x Voice, 2x GE, with Fiber Termination Enclosure.
ZNID-GPON-4221	Outdoor ONT, 2x Voice, 2x GE, RF Overlay, with Fiber Termination Enclosure.
ZNID-GPON-4222	Outdoor ONT, 2x Voice, 2x GE, HPNA-Coax, with Fiber Termination Enclosure.
ZNID-GPON-4223	Outdoor ONT, 2x Voice, 2x GE, HPNA-Coax, RF Overlay, with Fiber Termination Enclosure.
ZNID-GPON-4224	Outdoor ONT, 2x Voice, 2x GE, HPNA-Coax, HPNA-Phone, with Fiber Termination Enclosure.
ZNID-GPON-4225	Outdoor ONT, 2x Voice, 2x GE, HPNA-Coax, HPNA-Phone, RF Overlay, with Fiber Termination Enclosure.
ZNID-GPON-4240	Outdoor ONT, 4x voice, 2x GE, with Fiber Termination Enclosure.
ZNID-GPON-4241	Outdoor ONT, 4x voice, 2x GE, RF Overlay, with Fiber Termination Enclosure.
ZNID-GPON-4242	Outdoor ONT, 4x voice, 2x GE, HPNA-Coax, with Fiber Termination Enclosure.
ZNID-GPON-4243	Outdoor ONT, 4x voice, 2x GE, HPNA-Coax, RF Overlay, with Fiber Termination Enclosure.
ZNID-GPON-4244	Outdoor ONT, 4x voice, 2x GE, HPNA-Coax, HPNA-Phone, with Fiber Termination Enclosure.
ZNID-GPON-4245	Outdoor ONT, 4x voice, 2x GE, HPNA-Coax, HPNA-Phone, RF Overlay, with Fiber Termination Enclosure.