



DATA SHEET

zNID 2400A Series Indoor GPON ONT: ZNID-GPON-2402A, 2403A, 2424A, 2425A, 2426A & 2427A



Features

- Standard ITU G.984 GPON
- Indoor deployment
- Triple-Play QoS
- Multicast video
- VoIP with CLASS 5 Features
- 11b/g/n WiFi

Overview

TDZS' indoor residential 2400A series GPON ONTs are designed for advanced triple-play deployments in Fiber-to-the-Home/Premise applications. The indoor models in DZS' zNID product line of ONTs provide a lower cost alternative to outdoor ONT solutions. The small package contains many features including QoS, VoIP, and multicast video support. The series includes models with up to four 10/100/1000Mbps LAN ports, two POTS Voice FXS ports, b/g/n WiFi (with internal or removable external antennas) and an RF Video port, in a compact enclosure for indoor use.

Supporting industry standard SIP and MGCP voice signaling provides reliable voice services. DZS' experience with packet voice ensures

interoperability and support with a large number of soft switches. The four Ethernet ports can be separated into different services allowing the configuration of dedicated ports for IP video and data.

With wire-speed routing, a web UI for local management, and support for DZS' CPE Management system, the DZS GPON ONT solution paired with the MXK OLT is an efficient way to extend bandwidth intensive services to the network edge using standard Ethernet frames.

The GPON 2400A series ONTs can be either wall mounted inside the home or placed freestanding on a desktop.



Specifications

WEIGHT & DIMENSIONS

- 1.0 – 1.2LB (0.45 – 0.54 kg)

Complete Enclosure:

- 1.5 in. H x 10 in. W x 6 in. D
- 3.8 cm H x 25.4 cm W x 15.2 cm D

POWER

- 12 VDC (DC Models)
- 100-240 VAC 50/60 Hz (AC Models)
- Max Power: 16W

OPERATING REQUIREMENTS

- Temperature: 0°C – +40°C
- Humidity: 5 ~ 90% relative humidity, non-condensing

INTERFACES

GPON

- SC/APC connector
- APD receiver and DFB transmitter
- Compliant with ITU-T G.984.5, Class B+

GPON Tx

- Upstream data rate 1.25 Gbps
- 1310nm optics
- Launch 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 Jacks
- 4x10/100/1000 Base-T ports
- Meets IEEE 802.3 specifications
- Auto-MDI/MDIX and auto speed supported
- POTS
- 2xRJ-11 connector

WiFi

- 802.11b/g/n
- Dual internal antennas
- Optional removable external antennas on GPON-2426A/2427A -EUR and -NAR models

RF Video Overlay

- 1xF-type connector
- RF Output Impedance: 75 ohms
- RF Output Level: 17dBmV min.
- RF Passband: 47 MHz – 870 MHz
- Optical Wavelength: 1550 nm
- Input Optical range: -8 to +2 dBm
- Input Power overload: +5 dBm

STANDARDS SUPPORT

- ITU-T G.984 compliant
- IEEE 802.3 Ethernet
- IEEE 802.1q/p VLANs
- IEEE 802.3u Fast Ethernet
- IEEE 802.3ab 1000Base-T

WIRELESS SUPPORT

- 2x2 MIMO
- SSID support: 4
- Max number of subscribers: 64
- Maximum Tx power: 300 mW (-NA model); 100 mW (-EU and -UK models)
- Antennas: dual internal or removable external, 5dBi
- WEP, WPA-PSK, WPA2-PSK (AES, TKIP)
- 802.1x
- 64 bit and 128 bit WEP support
- MAC address filtering

MANAGEMENT

- OMCI
- Web UI
- CLI
- SNMP
- USP (Unified Service Provisioning)



Specifications

PROTOCOL SUPPORT

GPON

- Fully ITU-T G.984 compliant framing
- 32 T-CONTs per device
- 32 GEM Ports per device
- 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
- Support for Multicast GEM Port

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
- All VLAN IDs supported in Open Trunk Mode
- Maximum of 12 VLANs per LAN port in Filtered Trunk Mode
- VLAN tagging/untagging
- VLAN Stacking (QinQ)
- VLAN Switching
- SSID to VLAN Mapping

IPTV

- IGMP v2/v3 Snooping
- VLAN support

LAYER 2

- 802.3n flow control
- Automatic MAC learning and aging
- Unlimited # of MAC addresses for OMCI-configured flows
- Support for up to 4,096 MAC addresses for RG traffic flows
- Broadcast storm control

IP Routing and Firewall

- PPPoE
- NAT/NAPT
- Port forwarding
- DHCP Server
- DNS Server

VOICE SUPPORT

- SIP (RFC 3261)
- SIP PLAR
- MGCP
- Codec: G.711 (u-law and A-law), G.729B, G726
- 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

REGULATORY COMPLIANCE

- CE
- UL
- FCC part B



Ordering Information

MODEL	DESCRIPTION
ZNID-GPON-2402A-xx	Indoor GPON ONT, 2xGE; xx = NA, UK, EU power supply options
ZNID-GPON-2403A-xx	Indoor GPON ONT, 2xGE, 1xRF Video; xx = NA, UK, EU power supply options
ZNID-GPON-2424A-xx	Indoor GPON ONT, 4xGE, 2xPOTS; xx = NA, UK, EU power supply options
ZNID-GPON-2425A-xx	Indoor GPON ONT, 4xGE, 2xPOTS, 1xRF Video; xx = NA, UK, EU power supply options
ZNID-GPON-2426A-xx	Indoor GPON ONT, 4xGE, 2xPOTS, WiFi (removable antennas); xx = NA, EU power supply options
ZNID-GPON-2427A-xx	Indoor GPON ONT, 4xGE, 2xPOTS, WiFi, RF Video; xx = NA, UK, EU power supply options
ZNID-GPON-2427A-xxR	Indoor GPON ONT, 4xGE, 2xPOTS, WiFi (removable antennas), RF Video; xx = NA, EU power supply options