![DZS logo] Enabling the **Hyper-Connected World**

DATA SHEET

zNID 280XD Series Desktop GPON PoE ONT: ZNID-GPON-2804D

Features

- Standard ITU G.984 GPON
- Extended Temperature Range
- Compact Footprint for Desktop or Wall Mount
- Four GE Ports with PoE
- Plenum Rated

Overview

The DZS 280XD series GPON ONTs are standards-based indoor ONTs designed for Enterprise and Hospitality deployments requiring secure, Ethernet-only connectivity with a compact footprint. The 2804D GPON ONTs provide customers with 4 x 10/100/1000BaseT LAN ports, all with PoE capability, allowing for convenient connections to IP phones, PTZ cameras, wireless access points, and remote switches. Configurable per-port PoE limits help direct PoE power where it is needed.

The GE LAN ports can be separated into different services allowing the configuration of dedicated ports for IP video and data for one or more business work groups or departments. Unique VLANs may be configured per user to ensure full isolation of each department's data traffic.

With LLDP-MED support with external VoIP devices and DZS' Dynamic VLAN classification capability based on a comprehensive set of Ethernet/IP rules, operators can expertly manage traffic on each ONT LAN port to provide optimum customer experiences.

The extended temperature operating range is also well-suited for harsher environments such as unheated but weatherproof enclosures,

or mounting under a roof in areas that are not temperature controlled. The 280XD series GPON ONTs have a UL-2043 plenum rating and can be mounted above ceiling tiles or under floor tiles (plenum rating only available with remote DC powering, AC/DC power adapters that ship with the -NA, -EU, -UK models are not plenum rated), in addition to being wall-mounted or placed on a desktop.

The 280XD series GPON ONTs are powered from a nominal 48VDC source that may include battery backup, in which case four standard UPS alarms are collected by the ONT. Remote powering is also an option for the 280XD series ONTs.

Flexible management means the DZS 280XD series GPON ONTs may be provisioned using the same intuitive Web interface and CLI as the DZS 2400, 2600 and 4200 series ONTs, as well as through GPON-standard OMCI, USP (Unified Service Provisioning), the DZS Network Management System (ZMS), or using a TR-069 compliant ACS. Software upgrades and configuration backups can be handled automatically by the ZMS using the CPE Manager feature.

Specifications

WEIGHT & DIMENSIONS

- 0.77 LB (0.35 kg)
- 1.54 in. H x 6.22 in. W x 5.91 in. D
- 39mm H x 158mm W x 150mm D

POWER

- Input Voltage: 44 to 56 VDC
- Input Power: 6W Typ (ONT only)
- Input Power: 8W Max (ONT only)
- Input Power: 131 Max (ONT plus 123.2W PoE load)

INTERFACES

GPON

- SC/APC connector
- Full ITU-T G.984 compliance
- 1310nm Tx (Upstream)
- 1490nm Rx (Downstream)
- Fixed SFF optics
- Tx Line Rate: 1.25 Gbps
- Tx Launch Power: +0.5 to +5.0 dBm
- Rx Line Rate: 2.5 Gbps
- Rx Receiver Sensitivity: -28 dBm
- Rx Input Power Overload Level: -8 dBm
- Rx Input Power Damage Level: +5 dBm
- Dying gasp support
- Input power overload: -8 dBm

Ethernet

- RJ-45 Jacks
- 4 x 10/100/1000 Base-T ports
- Meets IEEE 802.3 specifications
- Auto-MDI/MDIX and auto speed supported
- Per-port Link/Activity, Speed, and PoE status indicators
- PoE support on all four ports
- Max 30.8W PoE load per port on all four ports
- Max 123.2W PoE load per ONT

Control and Indicators

- ONT Reset (recessed push-button switch)
- LED indicators for Configuration, WAN, Alarm, Battery, and Status

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
- 802.3at compliant

MANAGEMENT

- OMCI
- Web UI
- CLI
- SNMP
- USP (Unified Service Provisioning)
- TR-069

OPERATING REQUIREMENTS

- Operating Temperature: -15°C to +60°C
- Storage Temperature: -40°C to +85°C
- Humidity: 5% to 95% relative humidity (non-condensing)

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

QOS

- Ethernet bridging/switching per IEEE 802.1d/802.1q
- Traffic management (priority queuing)
- QoS with support for IEEE 802.1p + DSCP VLANS

VLANS

- Per port IEEE 802.1Q VLAN ID processing
- All VLAN IDs supported
- VLAN tagging/untagging
- VLAN Stacking (QinQ)
- VLAN Switching

IPTV

- IGMP v2 Snooping
- VLAN support

LAYER 2

- 802.3n flow control
- Automatic MAC learning and aging
- Support for up to 4,096 MAC addresses for RG traffic flows
- Broadcast storm control
- LLDP-MED

Ordering Information

MODEL	DESCRIPTION
ZNID-GPON-2804D-xx	Indoor GPON ONT, 4 x GE w/PoE, xx = 00 (none), NA, UK, EU power supply (80W)
ZNID-2800D-FIBERTRAY	Fiber Tray, attaches to ZNID-24XX, 26XX, or 2804D ONT

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