

2804D



GPON ONT with PoE for FiberLAN Applications

Features & Benefits

- + Standard ITU G.984 GPON
- + Extended Temperature Range
- + Compact Footprint for Desktop or Wall Mount
- + 802.3at PoE
- + Plenum Rated

The 28XXD 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 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. High-speed internet access and IPTV services are also easily provisioned through flexible management features via the ONT's built-in WebUI, OMCI or USP (Unified Service Provisioning).

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 for voice VLAN advertisement and DZS' Dynamic VLAN Mapping capability for handling complex sets of packet classification rules, operators can expertly manage traffic on each ONT LAN port to provide optimum customer experiences.

2804D

Product Specifications

Dimensions

- 1.54 in. H x 6.22 in. W x 5.91 in. D
- 39mm H x 158mm W x 150mm D

Weight

- 0.77 LB (0.35 kg)

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)

Operating Requirements

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

Regulatory Compliance

- CE
- UL
- FCC Part 15, Class B
- FDA 21CFR1040
- RoHS 2011/65/EU

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

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

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
- IP Routing and Firewall
 - PPPoE
 - NAT/NAPT
 - Port forwarding
 - DHCP Server
 - DNS Server
 - UPnP

Management

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

Ordering Information

Model	
ZNID-GPON-2804D-NA	Indoor GPON ONT, 4 x GE w/PoE, NA power supply
ZNID-2800D-FIBERTRAY	Fiber Tray, attaches to ZNID-Z4XX, Z6XX, or 2804D ONT

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