✓ **T1/E1 and Carrier Ethernet**

✓ **Services over Fiber**

✓ **Dual Uplink SFP Ports for GPON or GE SFP Transceivers**

✓ **Four T1/E1 Ports**

✓ **Five GE Ports**

✓ **One SFP LAN Ports**

✓ **Extended Operating Temperature**

✓ **Remote Management: Web GUI, ZMS, CPE, Manager, USP, CLI, TR-069**

Indoor GPON/GE 97XX ONT for Business Applications

The zNID 97XX Series ONTs are designed to transport Gb data and T1/E1 circuit emulation services over a GPON or Active Ethernet optical link. Mobile backhaul applications are easily supported with 5 x GE ports and up to 4 x T1/E1 ports.

A variety of T1E1 clocking modes are supported including Adaptive, Synchronous and Differential to provide accurate clock recovery in a variety of network configurations.

Reliability

The zNID 97XX Series ONTs operate over an extended temperature range and the 1-U size makes them ideal for small pedestals or street cabinets.

Redundant DC power connections and an optional hot-swappable fan tray improves system reliability. A secondary uplink SFP cage can be installed to provide WAN backup where the zNID 97XX Series ONT will switch to the alternate fiber connection when a facility outage is detected. All customer cabling attaches to the rear of the ONT.

Flexible management means the zNID 97XX Series GPON ONTs may be provisioned using the same intuitive Web interface and CLI as the Zhone 2400, 2600 and 4200 Series ONTs, as well as through the Zhone Network Management System (ZMS), USP (Unified Service Provisioning), or TR-069. Software upgrades and configuration backups can be handled automatically by the ZMS using the CPE Manager feature.

Technical Specifications

Dimensions

- 1-U Height
- 7.5" (190mm) Depth
- 19" Rack-mountable

Weight

- 8 lbs. (3.6 kg)

Power

- 48 to 56 VDC
- Power input with voltage sensing
- Max Power: 30W

Interfaces

- Uplink Ports:
  - dual SFP cages for GPON or AE SFPs (optics sold separately)

- Customer Ports:
  - 5x RJ45 10/100/1000Base-T
  - 4x RJ45 T1/E1
  - 1x SFP cage

Standards Support

- RFC 4553 (SAToP)
- RFC 5086 (CESoPSN)
- RFC 2236 (IGMPv2)
- RFC 1631 (NAT)
- RFC 2516 (PPPoE)
- ITU G.8261, G.823, G.824
- ITU G.984.1, G.984.2, G.984.3
- ITU G.703
- ITU Y.1413 (MPLS)
- ITU Y.1453, Y.1452 (TDM over IP)
- CTR 12/13 and ETX 30011 (Jitter)
- IEEE 802.3 Ethernet
- IEEE 802.1p/q VLANs
- IEEE 802.3u Fast Ethernet
- IEEE 802.3ab 1000Base-T
- IEEE 802.3z (Gigabit Ethernet)
- IEEE 802.3x (Flow control)

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)
- IPTV (IGMP Multicast, IGMP Snooping)

Management

- Web GUI
- ZMS (Zhone Management System) CPE Manager
- CLI
- SNMP
- Tr-069

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
- RoHS Compliant

Operating Requirements

- Temperature: -40°C to +60°C

Ordering Information

ZNID-GPON-9740-DC	Indoor 1U Rack Mount ONT, 5x GE, 4x T1/E1, DC power input