



5205P

XGS-PON/10GS FiberLAN Desktop ONT

10 GigE FiberLAN PoE ONT optimized for desktop and wall-mount installations using Zhone leading-edge xPON 10G technology.

Features & Benefits

- + Supports 10Gbps/10Gbps (Downstream/Upstream) with pluggable SFP+ WAN interface
- + One 10 gigabit multi-rate 100M/1G/2.5G/5G/10G Ethernet interface
- + Four gigabit multi-rate 10/100/1000M Ethernet interfaces
- + 802.3af, at, and bt PoE++ compliant
- + Up to 120W of PoE power per system
- + Enterprise LAN features (802.1x, LLDP)
- + Fiber management tray option

Introducing the next generation of 10Gbit products designed for Enterprise and Hospitality deployments requiring secure, Ethernet-only connectivity in a compact footprint. The SFP+ based uplink supports both symmetric 10/10 XGSPON and Active Ethernet technologies by simply swapping the optical transceiver.

All Ethernet 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.

The 5205P PON/AE ONT provides four 10/100/1000 Base-T and one 100/1000/2.5G/5G/10GBase-T LAN ports. All five ports support 802.3af/at PoE/PoE+ while three of them, including the 10GE port, support 802.3bt PoE++ (or 4-pair PoE), allowing for convenient connections to IP phones, PTZ cameras, wireless access points, and remote switches.



Service Scenario

The XGS-PON/10GS FiberLAN GPON network consists of an 10G+ Optical Line Termination (OLT) located in a central location, and a set of Enterprise grade Optical Network Terminals (ONTs). All Ethernet 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, 802.1x authentication, and Zhone 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.

Key Service Attributes

- + Supports 10Gbps 1270nm burst-mode transmitter and 1577nm continues-mode receiver
- + One 10GBase-T Ethernet ports, RJ45 supporting 10Gbps symmetrical services
- + Four 10/100/1000MBase-T Ethernet ports, RJ45 supporting 1Gbps symmetrical services
- + All ports 802.3af, at, and bt PoE++ compliant
- + Support of Radius 802.1x, LLDP
- + IPTV multicast, IGMPv2 and IGMPv3 services
- + Any-port, Any-service data model
- + Traffic management including Q-in-Q tagging, 802.1Q VLANs, multiple subscriber VLANs, per-port rate limiting
- + 802.1p priority bits, DiffServ and priority queues based on services types.
- + OMCI and TR-069/TR-98 management
- + Zhone Universal Service Provisioning (USP), ONT SNMP Client
- + Local Web UI, Zhone CPE Manager feature set
- + +48 VDC power source, option for battery backup

5205P XGS-PON/10GS FiberLAN PoE ONT Product Specifications

Hardware

- Dimensions
 - Width: 6.2" (158mm)
 - Depth: 5.9" (150mm)
 - Height: 1.54" (39mm)
- Weight 0.81 LB (0.37 kg)
- 256GByte Flash Memory
- 512GByte SDRAM (DDR3)
- XGS-PON/10GS WAN Interface
- Capacity: 10Gbps Down/10Gbps Up

Interfaces

- WAN: 1 SFP+ cage, xPON or Ethernet
- LAN: 1 port 100/1G/2.5G/5G/10GBase-T LAN, 4 ports 10/100/1000MBase-T Ethernet (RJ45)
- Power: 1 2x4 8-pin connector
- LED Indicators
- Recessed RESET button

XGS-PON/10GS

- 1 x10 MSA-compliant SFP+ cage for PON or AE modules (optical transceiver not included)
- XGSPON req: ITU-T G.9807.1-compliant module. 10Gbps 1270nm burst-mode transmitter and 1577nm continues-mode receiver.
- 10G AE req: IEEE 802.3ae 10GBaseLR/LW compliant module. 10Gbps 1310 DBF laser transmitter and PIN/TIA receiver.

Ethernet LAN ports

- Auto-MDI-X crossover control
- Auto-Speed or manual selection
- IEEE 802.3af, at, and bt PoE support on all ports
- Max 61.6W PoE load on any port up to 123.2W total
- IEEE 802.3an 10GBase-T
- IEEE 802.3bz 2.5G/5GBase-T/IEEE
- IEEE 802.3ab 1000Base-T
- IEEE 802.3u 100Base-T
- IEEE 802.3az EEE
- IEEE 802.1x Authentication

Quality of Service

- HW-based internal IEEE 802.1p (CoS)
- Strict Priority (SP)
- 802.1Q(VLAN tag) QoS mapping ToS/CoS
- 8 queues per port
- Classified traffic can be tagged with VLAN ID and Ethernet Priority bit, and can be assigned to priority queues
- Classify packets into different IEEE 802.1p priority queues according to DSCP values (RFC 2475)
- The range of traffic shaping or ratelimit shall be between 64 Kbps to the maximum port rate with 64kbps granularity. The accuracy error shall be less than $\pm 10\%$.
- DSCP IP CoS (RFC 2475)

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Product Specifications

Software Features

- IEEE802.1D and IEEE802.1Q
- Address learning with auto aging- L2/BPDU Filter
- Unlimited # of MAC addresses for OMCI configured flows
- Support for up to 4,096 MAC addresses for RG traffic flows
- Multiple T-CONTs/GEM ports per device
- Flexible mapping between GEM port and T-CONT
- Priority queues and scheduling on upstream
- Activation with automatic discovered serial Number and password
- Dying Gasp

IP Routing and Firewall

- DHCP, Static-IP and PPPoE
- NAT/NAPT
- DNS Proxy
- DHCP Server
- UPnP, plug and play

IPv6

- IPv4 and IPv6 Dual-Stack-Lite
- Bridged Mode (transparent pass thru of IPv6 frames)
- IPv6 support of BRouted and PPPoE Bridged VLANs
- DHCPv6 client and server
- Router Advertisement on LAN-side interfaces
- SLAAC for automatic acquisition of WAN-side IPv6 addresses and GW
- CLI, HTTP and TR-069 management via IPv6

Environmental

- Operating Temperature -23~104°F (-5C to +40C) Ex Temperature
- Storage temperature -40~121°F (-40~85°C)
- Operating humidity 5 to 90% (noncondensing)
- Altitude: -200 to 10,000 feet (-61 to 3,048 m) above sea level

Powering

- DC power, 44-56VDC
- Input power, 132W maximum (12W ONT TYP, 120W PoE)
- Power consumption, ~14W maximum

Management

- ITU-T 984.1/G988 compliant OMCI interface
- CPE Manager Web UI
- CLI over telnet
- SNMP Client
- TR-069, TR-104, TR-98
- Zhone Universal Service Provisioning
- LED indications for status

Compliance

- FCC Part 15 Class B
- ICES-003 Class B
- CE Mark
- Safety ETL/Intertek
- IEC 62368-1, UL 62368-1, EN 62368-1
- FDA IEC 60825-1
- RoHS 2015/863/EU

Ordering Information

Model	Description
5205P	1x SFP+ cage, xPON and 10GS 1x 10G RJ45 port, 802.3at, PoE compliant 4x 1G RJ45 ports, 802.3at, PoE compliant 1x 8-pin, 48VDC power input -5 to +40°C
ZNID-10GS-5205P -NA	North America
ZNID-10GS-5205P -EU	EU
ZNID-10GS-5205P -UK	UK
ZNID-10GS-5205P -00	No power supply
XCVR-XGS-SFP+-ONU-IA	XGSPON 10/10G ONU SFP+, 1270NM TX, 1577NM RX SINGLE FIBER SC/APC
XCVR-AE-SFP+-SBD-1270-20KM-IA	ACTIVE ETHERNET 10GB/S SFP+, 1270NM TX, 1330NM RX, 20KM, SINGLE FIBER, LC/UPC



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