

DeltaStream 1-port Pizzabox GPON Optical Line Terminal



MODEL:DS-P7002-01

Overview

DS-P7002-01 is a DeltaStream 1-port Pizzabox GPON Optical Line Terminal with full L2 and advanced L3 features designed for small-scale network usage scenarios. The pizza-box OLT supports both AC and DC power supply, and its advanced L2/L2+ functions design further improves the stability of the OLT network.



1:64 Split Ratio

Supports 1:64 splitting ratio - suitable for small-scale network usage scenarios.



Power Supply for Flexibility

Supports both AC and DC power supply, providing versatile and flexible power options to meet the diverse needs of different environments.



Compact Size for Flexible Deployment

11.6 inch rack/wall mount size is flexible and easy to deploy, suitable for different application scenarios.



Centralized Management

Makes maintenance easier with remote batch configuration and updates via DeltaStream PON Management System(DPMS), SNMP, CLI, and WEB UI.

Specifications

Hardware

- **Interface**
 - 1 × 10 Gbps SFP+ Uplink Port,
 - 2 × 10/100/1000Mbps RJ45 Uplink Ports,
 - 1 × SC/UPC GPON Port,
 - 1 × RJ45 Console Port
 - 1 × USB Type-C Console Port,
 - 1 × RJ45 MGMT Port
- **Power Supply**
 - DC Adapter: 12.0V/1.0A,
 - AC Adapter: 100~240V ~ 50/60Hz 0.2A
- **Dimensions (W * D * H)**
 - 8.9 × 5.2 × 1.4 in (226 × 131 × 35 mm)
- **Button**
 - 1 × RESET button
- **Power Consumption**
 - Max. 10W

GPON Port Attribute

- **Max. Splitting Ratio**
 - 1:64
- **Data Rate**
 - Downstream: 2.5Gbps; Upstream: 1.25Gbps
- **Wave Length**
 - Tx: 1490nm, Rx: 1310nm
- **Fiber Type**
 - 9/125μm SMF (Single Mode Fiber)
- **Transmission Distance**
 - 60km
- **Interface Type**
 - SC/UPC
- **Tx Power**
 - Class C++

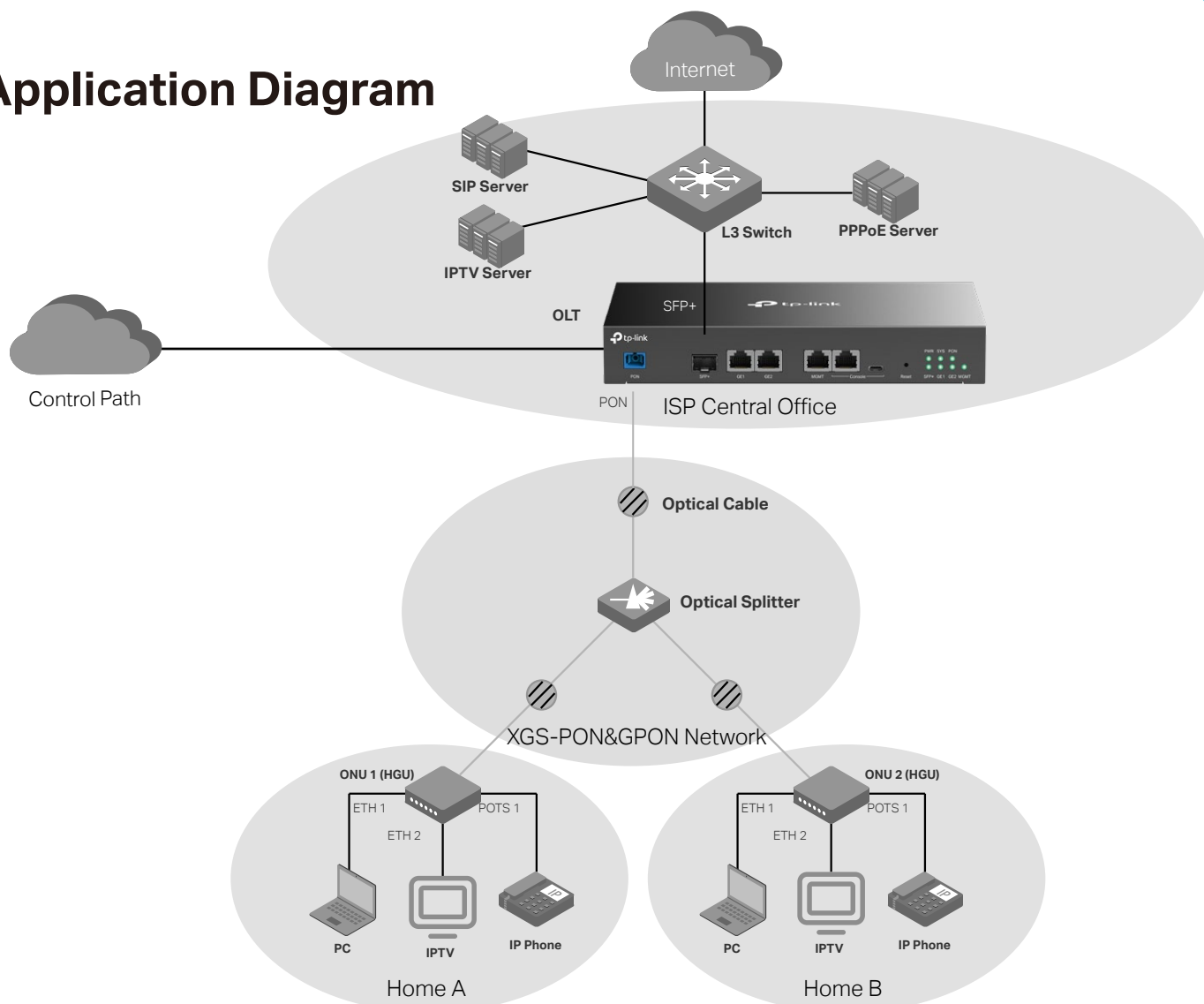
Others

- **Certification**
 - CE,FCC
- **Environment**
 - Operating Temperature: 0°C~50°C (32°F ~122°F)
 - Storage Temperature: -40°C~70°C (-40°F ~158°F)
 - Operating Humidity: 10%~90% non-condensing
 - Storage Humidity: 5%~90% non-condensing
- **Package Contents**
 - DeltaStream 1-port Pizzabox GPON Optical Line Terminal
 - DC Adapter, AC Cable
 - Console Cable
 - Installation Guide
 - Mouting Brackets, Screws and Rubber Feet

Software

- **GPON**
 - Standard OMCI Management Supported
 - DBA/Tcont/Gemport
 - ONU Discovery
 - ONU Auto Authentication
 - Rouge ONU Detection and Isolation,
 - ONU VLAN Isolation
 - ONU Configuration and Management
 - ONU Batch Upgrade
 - ONU link detection, dying-gasp alarm
 - Uplink and Downlink Data Encryption
 - Multi-Service Traffic Identify and Rate Limit
- **Basic**
 - Jumbo Frame
 - Port Isolation
 - Loopback Detection
 - Port/MAC/Protocol VLAN, GVRP
 - Static/Dynamic/Filtering MAC Address
 - STP/RSTP/MSTP
 - LLDP/LLDP-MED
 - Ethernet OAM
 - DLDLP
- **L3 Basic**
 - VLAN Interface: IPV4/IPV6
 - IPV4/IPV6 Static Routing
 - Static/Gratuitous/Proxy ARP
- **Multicast**
 - IGMP/MLD Snooping, Multicast VLAN Registration, Multicast Filtering
- **DHCP**
 - DHCP Server, DHCP Relay, DHCP L2 Relay
- **Security**
 - ACL (based on MAC/IPV4/IPV6/etc)
 - DHCPv4/DHCPv6 Filter
 - Port Security, Access Security
- **QoS**
 - Port/8021p/DSCP Priority Remap
 - Scheduler Mechanism: WRR/SP
 - Ingress/Egress Rate Limit
 - Broadcast/Multicast/UL-Frame Storm Control
 - Voice VLAN
 - Auto VOIP
- **Standalone Management**
 - WEB,SNMP,CLI,SSH,Telnet
 - Startup/Backup Image
 - Firmware/Config Management
 - CPU/Memory/DDM monitor
 - Port Traffic Monitor
 - Port Traffic Mirror
 - Logs/Ping/Tracert
- **Centralized Management**
 - Large-Scale Devices Management,
 - OLT Batch Configure, Upgrade, Reboot,
 - Multi-Site Management,
 - Intelligent Network Monitoring,
 - Real-time Network Overview

Application Diagram



Hardware Description

