

# L101P Product Specification

Single-port GPON OLT

## Introduction

The GPON OLT L101P fully complies with the international standards of ITU-T G.984.x and FSAN specifications.

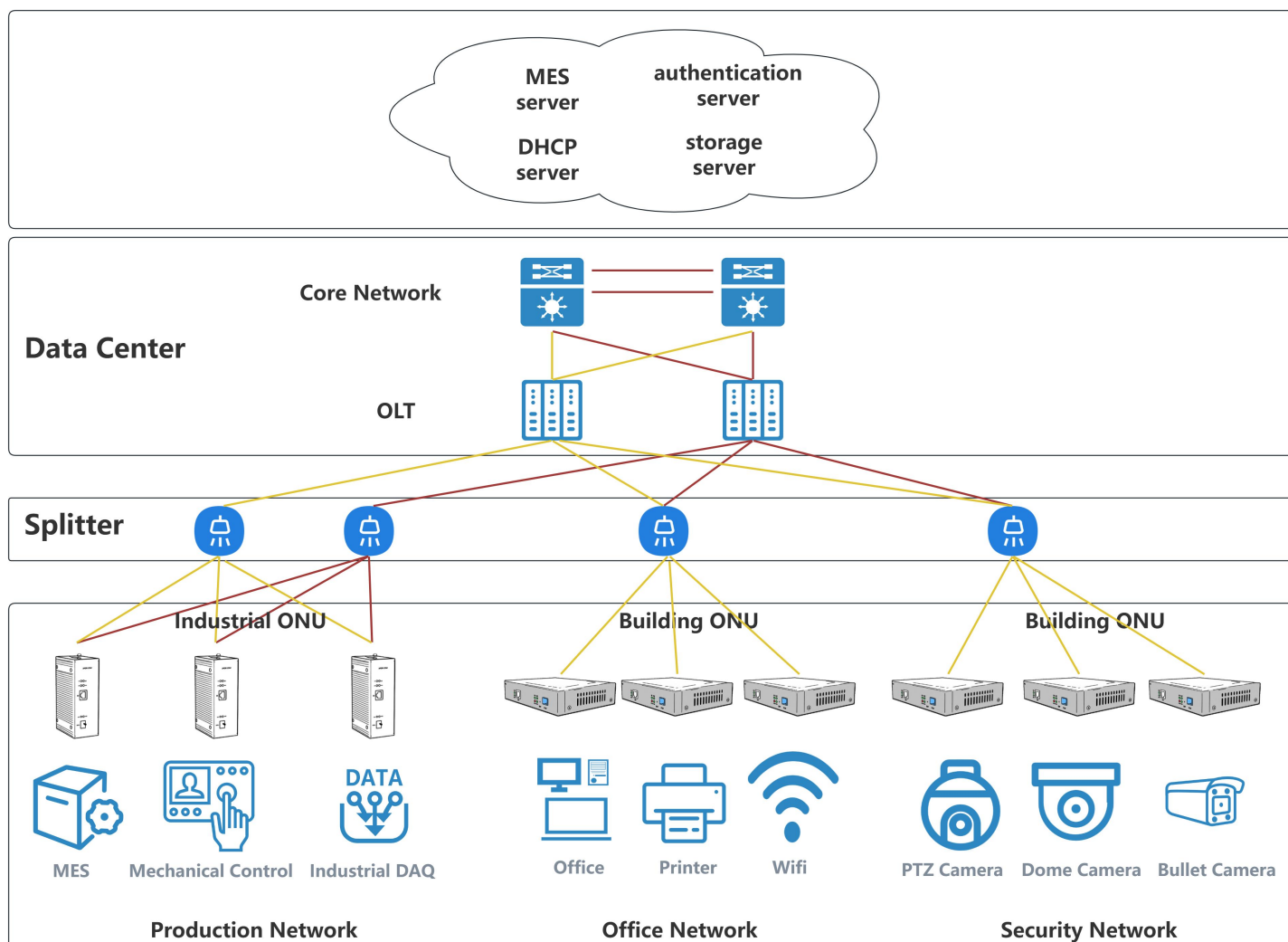
The device is equipped with 2 fixed Gigabit Ethernet uplink ports, 1 10G/XGS-PON uplink port, and 2 GPON port.

It adopts wide temperature resistance, and high reliability in various deployment scenarios.

Each GPON port supports a maximum splitting ratio of **1:128**, and the system can accommodate up to 128 ONU terminals in a single GPON system.



## Application Scenarios



Technical Specifications

| Item                         |                         | L101P                                                       |
|------------------------------|-------------------------|-------------------------------------------------------------|
| Appearance                   | Chassis                 | 1U                                                          |
| Uplink Port                  | Quantity                | 3                                                           |
|                              | RJ45 (GE)               | 2                                                           |
|                              | SFP (GE)/SFP+ (10GE)    | 1                                                           |
| GPON PON Port Specifications | Quantity                | 1                                                           |
|                              | Physical interface      | SFP slot                                                    |
|                              | Interface type          | GPON: ITU-TG.984.2 Class B+/Class C+                        |
|                              | GPON PON Port Rate      | Upstream 1.244Gbps, Downstream 2.488Gbps                    |
|                              | Wavelength              | TX 1490nm, RX 1310nm                                        |
|                              | Maximum Splitting Ratio | 1:128                                                       |
|                              | Transmission Distance   | 20KM                                                        |
| Management Port              |                         | 1×USB-COM (Type-C) Port                                     |
| Management Mode              |                         | WEB / Telnet / CLI / SNMP                                   |
| Power Supply                 | AC                      | Operating Voltage Range: 100~240V, Rated Voltage: 110V/220V |
|                              | DC Power Adapter        | DC 12V/2A                                                   |
| Lightning Protection Rating  | Power                   | 4KV                                                         |
|                              | Interface               | 1KV                                                         |

Feature Overview

Management Functions

- Telnet, CLI, WEB, SNMP
- Port status monitoring and configuration management
- Online ONT configuration and management
- User management
- Alarm management

Switching Functions

- Access/Trunk/Hybrid L2 access mode
- Support 64K MAC address
- Support 4094 VLANs
- VLAN filter function,VLAN transform
- L2 port mirror
- MAC address learning/aging

Multicast

- IGMP snooping
- IGMP V1/V2/V3
- Multicast VLAN translation

GPON Functions

- Compliant with ITU-T G.984.x standards
- Maximum transmission distance up to 20KM
- Supports data encryption, multicast, port VLAN, user isolation, etc.
- Supports automatic ONT discovery, link detection and remote software upgrade
- Supports VLAN division and user isolation to prevent broadcast storms
- Supports power-off alarm function for convenient link fault detection
- Supports anti-broadcast storm function

Physical & Environmental Specifications

- Net weight (single power supply): <1Kg
- Size 239\*132\*44mm
- Operating Temperature -20 ° C ~ +60 ° C
- Storage Temperature -40 ° C ~ +70 ° C
- Relative Humidity 5% ~ 95% (non-condensing)

Order Information

| Model | Product Description       | Power supply  | Optional Spare Parts |
|-------|---------------------------|---------------|----------------------|
| L101P | 1*GPON, 2*RJ45+1*SFP/SFP+ | 1*AC+1*DC 12V | 10G SFP+ PON Module  |