## AP 1501 — AP1501GZ-1Port GEPON ONU

- Full compatible with IEEE802.3ah

- Support port-based rate limitation and bandwidth control

- Support Bridge mode & Routing Mode

- In compliant with IEEE802.3ah Standard

- Up to 20KM transmission Distance

- Support data encryption, group broadcasting, port VLAN separation, etc.

- Support Dynamic Bandwidth Allocation (DBA)

DATASHEET

Model No. AP1501GZ

AP1501GZ-1Port GEPON ONU

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DATASHEET

## PRODUCT INTERFACE AND LED DEFINITIONS

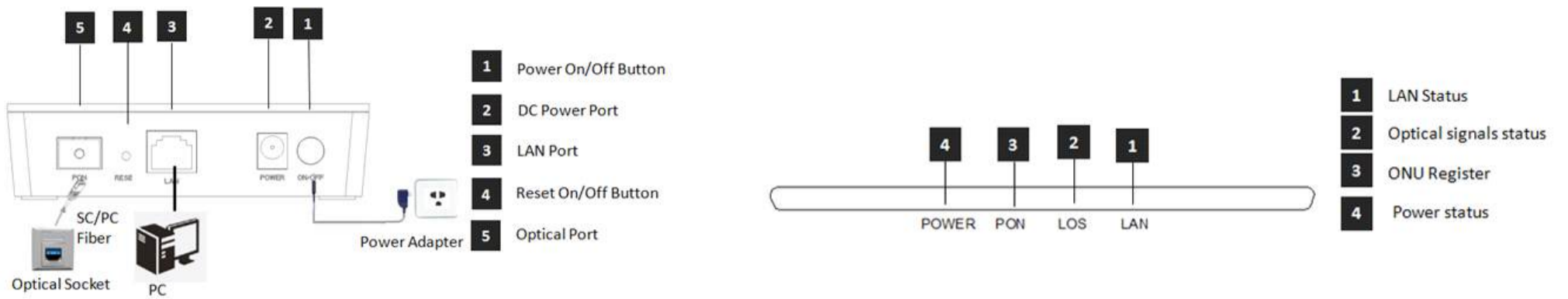| Indicator | | Description |
|---|---|---|
| LAN | Lan Port Status | On: Ethernet connection is normal;<br>Blinking: Data is being transmitted through the Ethernet port;<br>Off: Ethernet connection is not set up; |
| LOS | EPON Optical Signals | On: Optical power lower than receiver sensitivity ;<br>Off: Optical in normal |
| PON | ONU Register | On: Success to register to OLT;<br>Blinking: In process of registering to OLT;<br>Off: In process of registering to OLT; |
| PWR | Power Status | On: The ONT is power on;<br>Off: The ONT is Power off; |

## TECHNICAL SPECIFICATIONS

| Interface | |
|---|---|
| PON Port | 1 EPON optical interface<br>Meet 1000BASE-PX20+ standard<br>Symmetric 1.25Gbps upstream/downstream<br>SC single-mode fiber<br>Split ratio: 1:64<br>Transmission distance 20KM |
| Ethernet Port (LAN) | 1*GE Auto-negotiation RJ45 ports<br>Full Duplex / Half-Duplex<br>RJ45, Auto-MDI/MDI-X<br>Transmission Distance 100 Meter |
| Power Supply Port | 12V DC input |

| Management | |
|---|---|
| Network Management | Support IEEE802.3 QAM, ONU can be remotely managed by OLT<br>Support Remote management through SNMP and Telnet<br>Local management |
| Management Function | Status monitor, Configuration management, Alarm management, Log management |

| Environment Specifications | |
|---|---|
| Shell | Plastic casing |
| Power | External 12V 0.5A AC/DC power supply adapter<br>Power consumption: <3W |
| Dimensions | 110mm(L) x70mm(W) x30mm (H)<br>0.1kg |
| Environment | Operating Temperature：0～50℃<br>StorageTemperature：-40～85℃<br>Operating Humidity：10%～90%(Non-condensing)<br>StorageHumidity：5%～95%(Non-condensing) |

## OVERVIEW

1501GZ-1Port GEPON ONT is one of the EPON optical network unit design to meet the requirement of the broadband access network. It applies in FTTH/FTTO to provide the data and video service based on the GEPON network.

GEPON is the latest generations of access network technology. IEEE802.3ah is the standard protocol of GEPON. The GEPON standard differs from other PON standards in that it achieves higher bandwidth and higher efficiency using larger, variable-length packets. GEPON offers efficient packaging of user traffic, with frame segmentation allowing higher quality of service (QOS) for delay-sensitive voice and video communications traffic. GEPON networks provides the reliability and performance expected for business services and provides an attractive way to deliver residential services. GEPON enables Fiber To The Home (FTTH) deployments economically resulting to accelerated growth worldwide.

AP1501GZ is based on ZTE high-performance xPON access chip. The chip supposes three mode：GPON/EPON/P2P, comply with the GPON standard of g.984, g.983,802.3-2005, CTC GEPON equipment technical requirements, have good xPON interoperability compatibility.

AP1501GZ provide one GE auto-adapting Ethernet ports. The 1501GZ features high-performance forwarding capabilities to ensure excellent experience with Internet and HD video services. Therefore, provides a perfect terminal solution and future-oriented service supporting capabilities for FTTH deployment. It has good third-party compatibility to work with the third party OLT, such as Huawei/ZTE/Fiber home/Alcatel-Lucent

## KEY FEATURES

- Full compatible with IEEE802.3ah.
- Support port-based rate limitation and bandwidth control.
- Support Bridge mode & Routing Mode
- In compliant with IEEE802.3ah Standard.
- Up to 20KM transmission Distance.
- Support data encryption, group broadcasting, port VLAN separation, etc.
- Support Dynamic Bandwidth Allocation (DBA).
- Support ONU auto-discovery/Link detection/remote upgrade of software.
- Support VLAN division and user separation to avoid broadcast storm.
- Support power-off alarm function, easy for link problem detection.
- Support broadcasting storm resistance function.
- Support port isolation between different ports.
- Support ACL and SNMP to configure data packet filter flexibly.
- Specialized design for system breakdown prevention to maintain stable system.
- Support software online upgrading.
- EMS network management based on SNMP, convenient for maintenance.

# PRODUCT INTERFACE AND LED DEFINITIONS



| | |
|---|---|
| **1** | Power On/Off Button |
| **2** | DC Power Port |
| **3** | LAN Port |
| **4** | Reset On/Off Button |
| **5** | Optical Port |

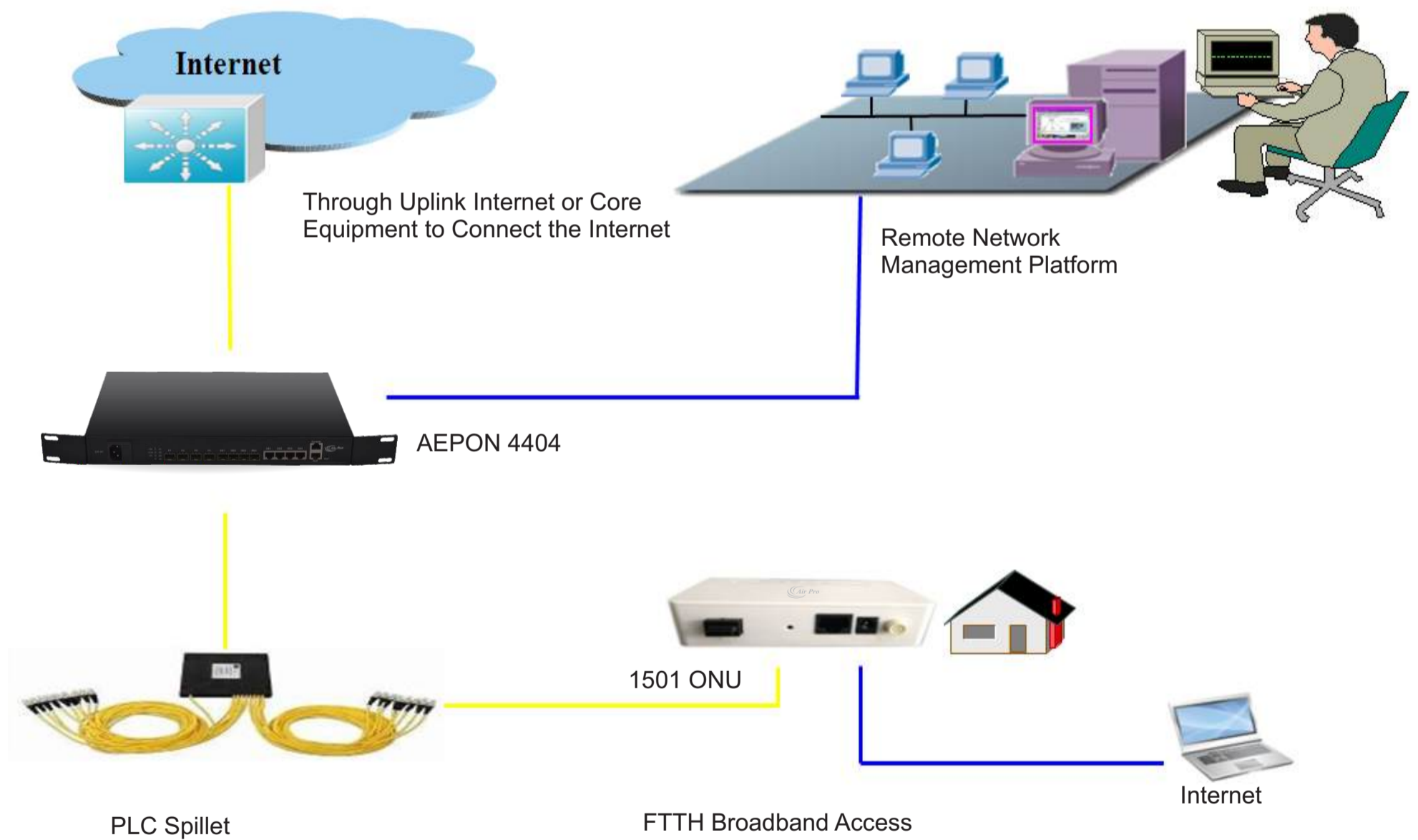| | |
|---|---|
| **1** | LAN Status |
| **2** | Optical signals status |
| **3** | ONU Register |
| **4** | Power status |

POWER  PON  LOS  LAN

# APPLICATION

Solution : FTTH

Business : Broadband Internet, IPTV, VOD, IP Camera

# NETWORK CONSTRUCTION



Through Uplink Internet or Core Equipment to Connect the Internet

Remote Network Management Platform

AEPON 4404

PLC Spillet

1501 ONU

FTTH Broadband Access

Internet

## Air Pro

**www.airpro.in**