All for better networking.

TES7002

2 Port GPON OLT

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Product Description

TES7002 is a small volume, low density box GPON OLT access device, which provides GPON-based passive optical network for ISP, government，park，hotel，schooland enterprise users.

It provides 2 GPON service access ports, 1*10GE+4*GE uplink ports,It can provide users with comprehensive services such as broadband, VOIP, IPTV, Videoand CATV.

The design is easy to install ,easy to management， easy to connection and adaptable to various scenarios. With different types of GPON ONT products, a GPON network with full-fiber coverage can be built to reduce customer operating costs.

Easy operation and maintenance

Guided activation method:

Four steps complete the equipment management and business，

achieve a quick and convenient start

Zero-configuration, and ready to use:

ONT self discovery plug and play, enabling rapid user service

activation

High reliability

Work at minus 20 ℃ to 55 ℃ above zero

Dual power redundancy protection:

Automatically switch to standby mode in case of abnormal power supply

operation, reducing the risk of equipment downtime。

2KV port lightning protection, 6KV power supply lightning protection

Powerful features

Remote restart of PSE equipment:

Remote restart of faulty terminal AP/camera, troubleshooting

Any ONT device under the same PON can achieve layer L2 data

forwarding

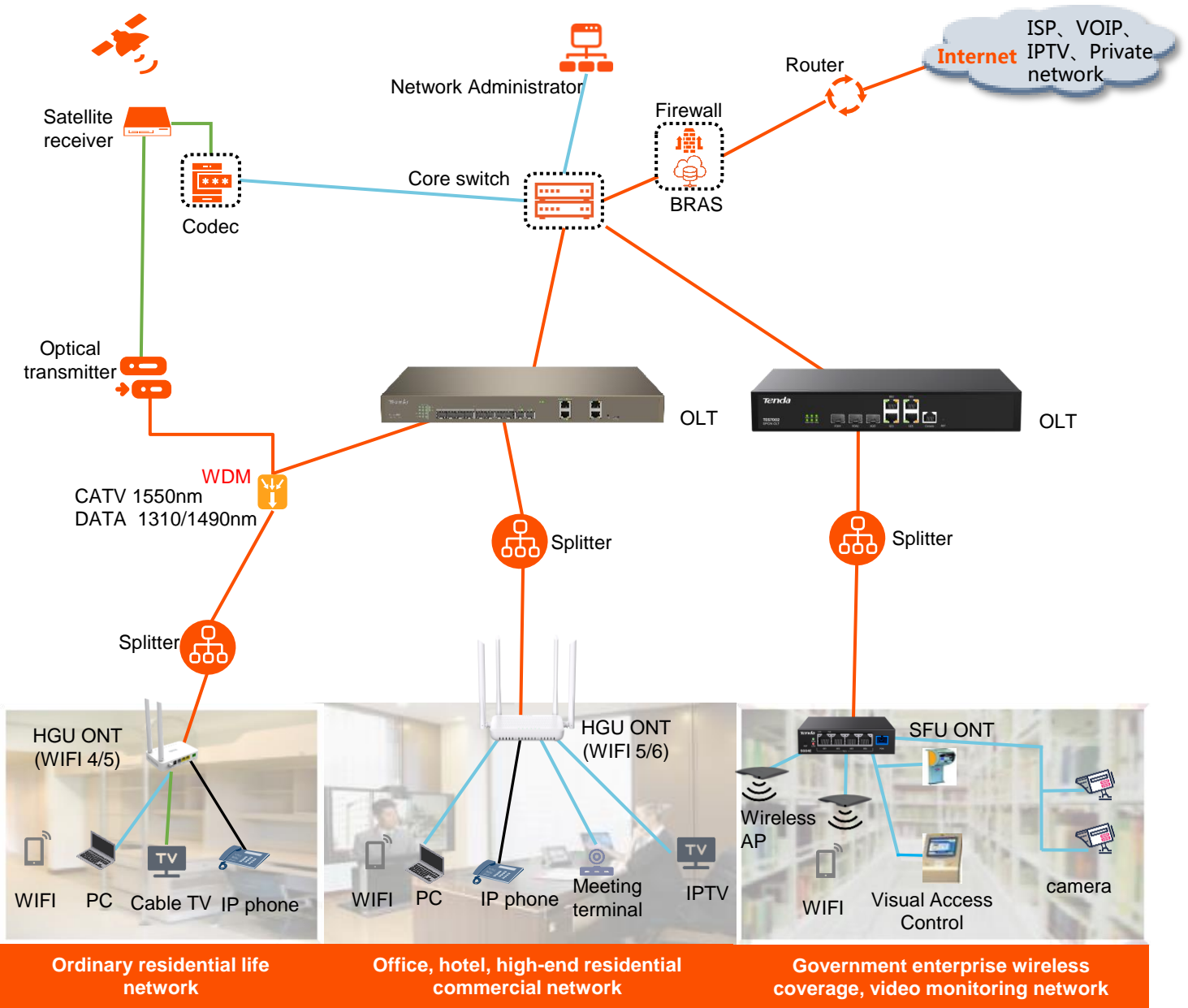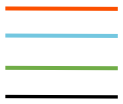Implementing L3 communication through VLAN routing

Flexible deployment and fast access

Suitable for use in SMB scenarios for 128/256 network points,

avoiding waste caused by low port resource requirements for

users

Suitable for low-density area coverage, park and school area

access, flexible deployment and fast access

Tenda
Product topology

Satellite receiver

Codec

Optical transmitter

Network Administrator

Core switch

Firewall

BRAS

Router

Internet ISP、VOIP、IPTV、Private network

OLT

OLT

WDM
CATV 1550nm
DATA 1310/1490nm

Splitter

Splitter

Splitter

HGU ONT
(WIFI 4/5)

WIFI　PC　Cable TV　IP phone

HGU ONT
(WIFI 5/6)

WIFI　PC　IP phone　Meeting terminal　IPTV

SFU ONT

Wireless AP

WIFI　Visual Access Control　camera

Ordinary residential life network

Office, hotel, high-end residential commercial network

Government enterprise wireless coverage, video monitoring network

03

Product interface

2*GPON Ports   1*10GE/GE Uplink Port   4*GE Uplink Ports   1*RS232 Serial port   1*RST Key

2*AC Power

Character Panel	Interface/button name	Quantity	Description
AC-IN	Power interface	2	Used to connect to 110V/220V AC power (Quantity of power supply is optional before delivery)
RST	Reset key	1	Used to manually restart the product
PON1~2	GPON service port	2	Provides one GPON service interfaces
XGE1	Uplink 10GE/GE optical port	1	Provides one 10GE/GE uplink optical port
GE2~5	Uplink GE ethernet port	4	Provides four GE uplink Ethernet ports
Console	RS-232 Serial port	1	Provide a serial port that can manage the system through the local serial port cable

LED information

LED screen printing	LED Indicator Type	color	Status	Description
PWR1~2	Power supply indicator	green	ON	Normal power supply
			OFF	No power supply or power supply breaks down
ACT	System status indicator	green	ON	System running properly
			Slowly blink	System initializing, or software starting but master-slave communication state is not established
			Fast blink	System receiving configuration commands, or establishing master-slave communication state
			OFF	System powered off or software not started
PON1~2	PON port indicator	green	ON	ONT connected to the PON port
			OFF	No ONT connected to the PON port
XGE1	Uplink port indicator	green	ON	Port connected
			OFF	Port disconnected or connect improperly
GE2~5	Uplink port indicator	green	ON	Port connected and port speed is 1000M
			Blink	Port connect and port has data
		yellow	ON	Port connected and port speed below 1000M
			Blink	Port connect and port has data
		OFF		Port disconnected or connect improperly

Tenda
Specification

Hardware Specification	
Management Rack	1U 13 inch standard box
Size（WxDxH）	294mm*180mm*44mm
Weight	2.02kg
Power Supply	AC:100～240V Dual redundant power supply design
Power Consumption	≤18w
Environment	Working temperature: -20~55℃ Storage temperature: -40~85℃ Operating humidity: 10~95%
MAC Capacity	4K
Uplink Port	1 *SFP+ 10-Gigabit ports 4 *10/100/1000 Mauto-negotiation Ethernet ports
PON Port	2*SFP slot, Follow ITU-TG.984.2 ClassB+/ClassC+/ClassC++ Max splitting ratio: 1/128
Management Port	1*RJ45 Console port
Software Specification	
VLAN	Support 512 concurrent VLAN Support VLAN Transparent/Tag/Trunk mode
IGMP	Suport IGMPV2/V3 Suport IGMP SNOOPING Supor Concurrent 512 muliticast groups
Loop Detection	Support Loopback
Port Funtion	Support Port Rate Limit Support Port ingress/egress/both stream Mirro IEEE802.X flowcontrol Support Port Statistic And Monitoring

Specification

Advanced Feature	
Effecient Configuration	Provide batch configing ONT template, support DBA/VLAN/POE
System Management	Support in-band management Support CLI、Telnet、WEB network management Support batch ONT remote upgrade
Optical power detection	Support Uplink port optical parameter detection Support PON port optical parameter detection Support batch ONT optical parameter detection
Redundant Backup	Supports dual power redundancy backup, the dual mirroring software
Link Monitor	Network management supports monitoring optical link index Network management supports data flow statistics of all service ports Support auto alarm when link index degrades Long luminescence ONT detection

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