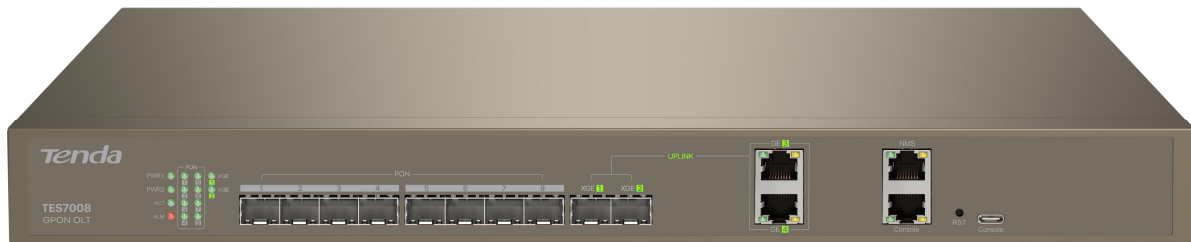# Tenda

All for better networking.

TES7008
8-Port GPON OLT

TES7008

8-Port GPON OLT

Product Description

TES7008 is a small volume, low density box GPON OLT access device, which provides GPON-based passive optical network for ISP, government, and enterprise users.

It provides 8 GPON service access ports, 2 *10GE+2 *GE uplink ports, It can provide users with comprehensive services such as broadband, VOIP, IPTV, and CATV.

The standard 1U box design is easy to install 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.
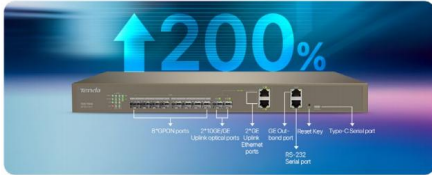
Tenda
Product Features

Guided activation method, zero-configuration, and ready to use

User-friendly, low learning cost, like opening a router to use OLT, supports ONT plug and play

Redesign and integration of business logic for easier use, 200% faster equipment business opening efficiency

Visualized management, PON system status at a glance

Localized visual management can be conveniently performed through WEB network management for standalone machines; bulk OLT management can be performed remotely through EMS network management for clusters

Good compatibility with ONT of different manufacturers

The software does not do restrictions on the ONT of different manufacturers, compatible with the mainstream manufacturers of ONT
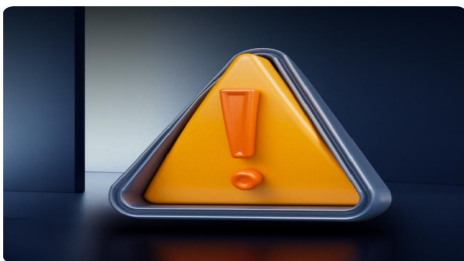
Rogue ONT Detection

Automatic reporting of the ONT alarm information when a rogue ONT appears, the abnormal ONT can be quickly removed to reduce the impact on other ONTs, to ensure the normal and efficient operation of the device

Dual power redundancy backup Dual mirroring software

Hardware supports dual power supply combination, support dual firmware, and dual configuration, no fear of configuration loss and power failure during upgrading
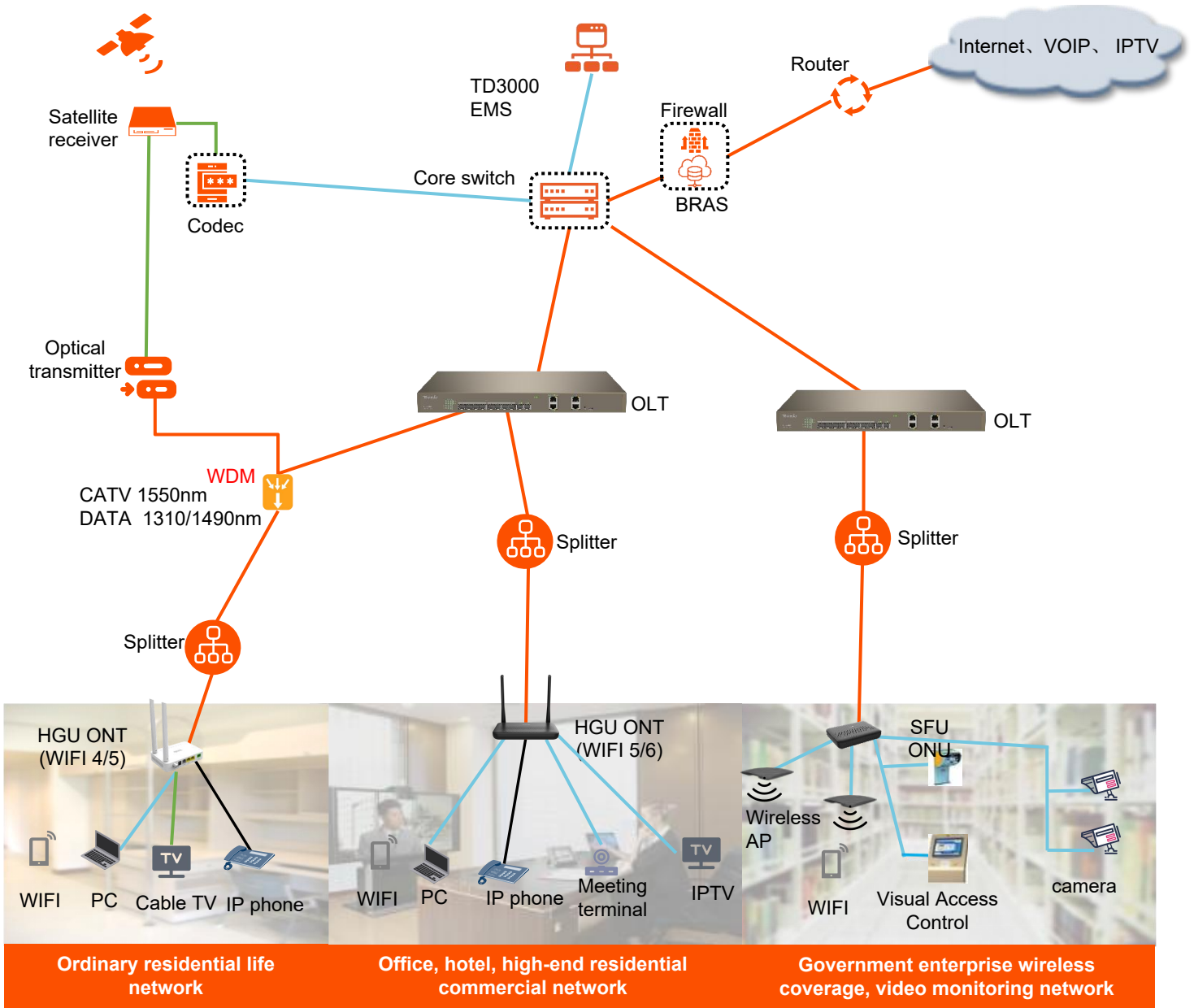
Intelligent fan, silent, energy saving

Intelligent fan, monitoring the operating temperature and automatic speed regulation and abnormal alarm, MTBF 70000H. In another whole machine with low power consumption and extreme silence, the maximum noise is less than 36dB(A)

Tenda
Product topology

Fiber Cable
Ethernet Cable
Catv Cable
Telephone Cable

Satellite receiver

TD3000 EMS

Router

Internet、VOIP、 IPTV

Firewall

Codec

Core switch

BRAS

Optical transmitter

OLT

OLT

WDM

CATV 1550nm
DATA 1310/1490nm

Splitter

Splitter

Splitter

HGU ONT
(WIFI 4/5)

HGU ONT
(WIFI 5/6)

SFU ONU

Wireless AP

WIFI   PC   Cable TV IP phone

WIFI   PC   IP phone   Meeting terminal   IPTV

WIFI   Visual Access Control   camera

Ordinary residential life network

Office, hotel, high-end residential commercial network

Government enterprise wireless coverage, video monitoring network

8*GPON ports   2*10GE/GE Uplink optical ports   2*GE Uplink Ethernet ports   GE Out-band port   RS-232 Serial port   Reset key   Type-C Serial port

Power interface

Character Panel	Interface/button name	Quantity	Description
AC 100-240V 50/60Hz	power interface	1-2	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
PON1~8	GPON service port	8	Provides eight GPON service interfaces
XGE1~2	Uplink 10GE/GE optical port	2	Provides two 10GE/GE upstream optical ports
GE3~4	Uplink GE ethernet port	2	Provides two GE upstream network ports
NMS	Management port	1	Provides a gigabit local Ethernet management port
Console	RS-232 Serial port	1	Provides a serial port that can manage the system through the local serial port cable
Console	Type-c Serial port	1	Provides a USB port for system management through a local Type-C 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
ALM	Alarm indicator	red	ON	System alarms occurred
			OFF	No system alarms
PON1~8	PON port indicator	green	ON	ONT connected to the PON port
			OFF	No ONT connected to the PON port
XGE1~2	Uplink optical port indicator	green	ON	Port connected
			Fast blink	Port transmitting or receiving data
			OFF	Port disconnected or connect improperly
GE3~4	Uplink ethernet port indicator	green	ON	Indicates that port rate is 1000 M
			Blink	Port transmitting or receiving data
			OFF	Management port disconnected or connect improperly
		Yellow	ON	Indicates that port rate is 100 M
			Blink	Port transmitting or receiving data
			OFF	Management port disconnected or connect improperly
NMS	Management port indicator	green	ON	Indicates that port rate is 1000 M
			Blink	Port transmitting or receiving data
			OFF	Management port disconnected or connect improperly
		Yellow	ON	Indicates that port rate is 100 M
			Blink	Port transmitting or receiving data
			OFF	Management port disconnected or connect improperly

Tenda
Specification

Hardware Specification	
Management Rack	1U 19-inch standard box
Size（Wx Dx H）	440mm *240mm *44mm
Weight	3.5kg
Power Supply	AC: 100～240V, 47/63Hz DC: -40V～-72V Dual redundant power supply design, supports AC, DC or mixed power input
Environment	Working temperature: -5~45℃ Storage temperature: -40~85℃ Relative humidity: 5~90%
MAC Capacity	32K
Uplink Port	2 *SFP+ 10-Gigabit ports 2 *10/100/1000M auto-negotiation Ethernet ports
PON Port	8 *SFP slot, Follow ITU-TG.984.2 ClassB+/ClassC+/ClassC++ Max splitting ratio: 1/128
Management Port	1 *100/1000 BASE-TX out-band management port 1 *RJ45 Console port 1 *Type-C Console port
Software Specification	
VLAN	Support 4K concurrent VLAN Support VLAN Transparent/Tag/Trunk mode Support VLAN priority (COS) remark Support flexible QINQ based on report matching type (MAC/IP/CVLAN/ETH-TYPE) Support 1:1 VLAN Translation based on template binding
IGMP	Support SNOOPING and PROXY Support Concurrent 2K multicast groups
ACL	Provide illegal frame filtering and packet filtering function based on source MAC (Medium Access Control), source IP, destination IP and port
QOS	Three strategies for queue schedule: SP (Strict Priority), WRR (Weighted Round Robin) and mixed mode (SP+WRR)
Link Aggregation	Max 2 link aggregation groups
Loop Detection	Support STP and RSTP

Specification

Advanced Feature	
Efficient Configuration	Support ONT configuration migration, provide batch configuring ONT template, support VLAN pool at ONT port
System Management	Support in-band and out-of-band management Support CLI, WEB, and SNMP network management Support batch ONT remote upgrade
Redundant Backup	Supports dual power redundancy backup, 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-duration luminescence ONT detection

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