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All for better networking.

TES7001

Single Port GPON OLT



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Product Description

TES7001 is a small volume, low density box GPON OLT access device, which provides GPON-based passive optical network for ISP, government, park, hotel, school, and enterprise users.

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

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Product Features



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



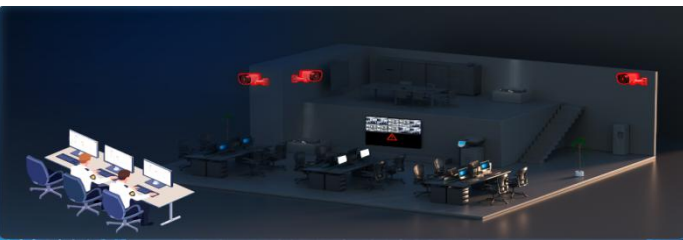
High reliability

Work at minus 20 °C to 55 °C 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

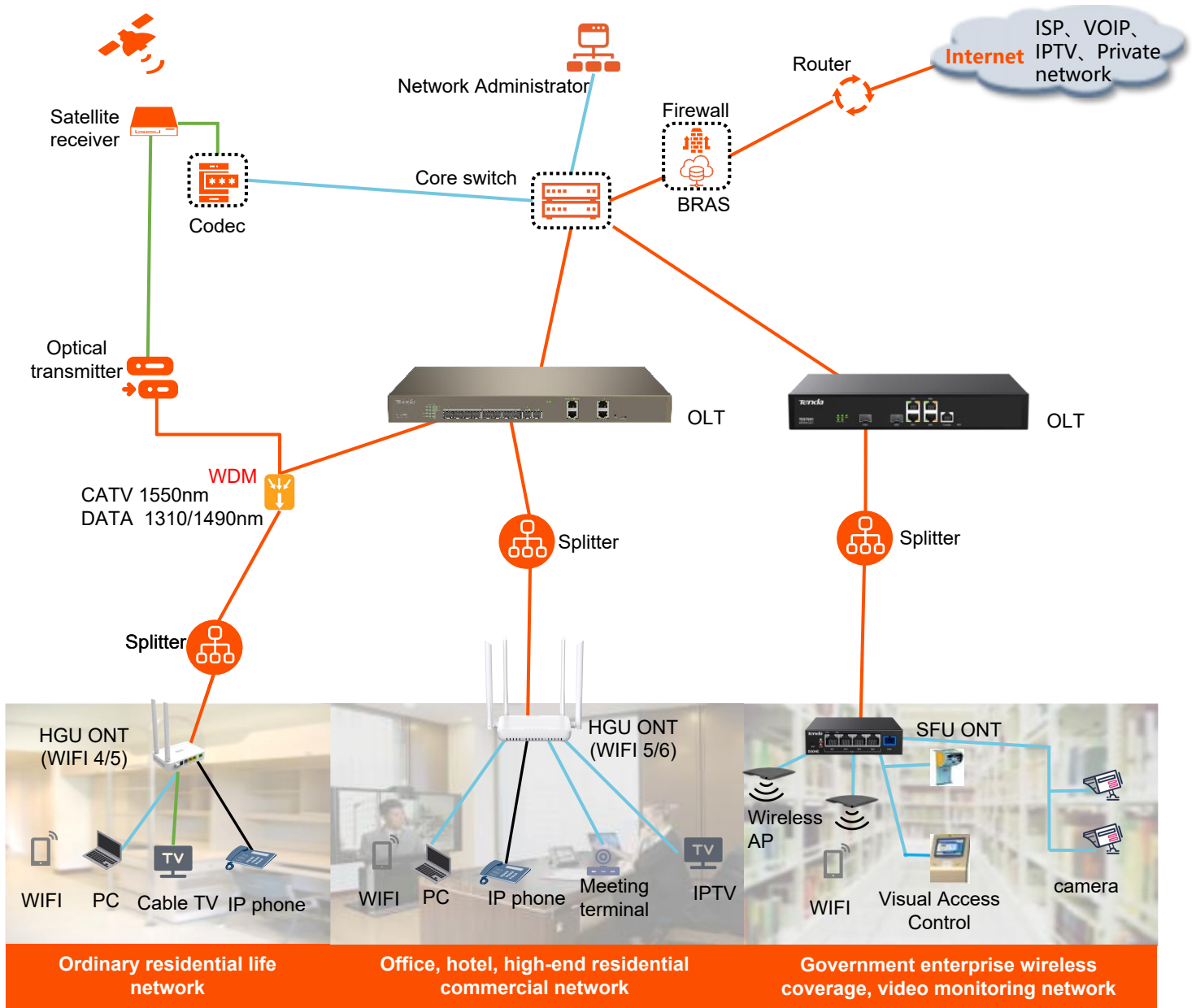
Suitable for use in SMB scenarios for 128/256 network points, avoiding waste caused by low port resource requirements for users

Suitable for low-density area coverage, park and school area access, flexible deployment and fast access

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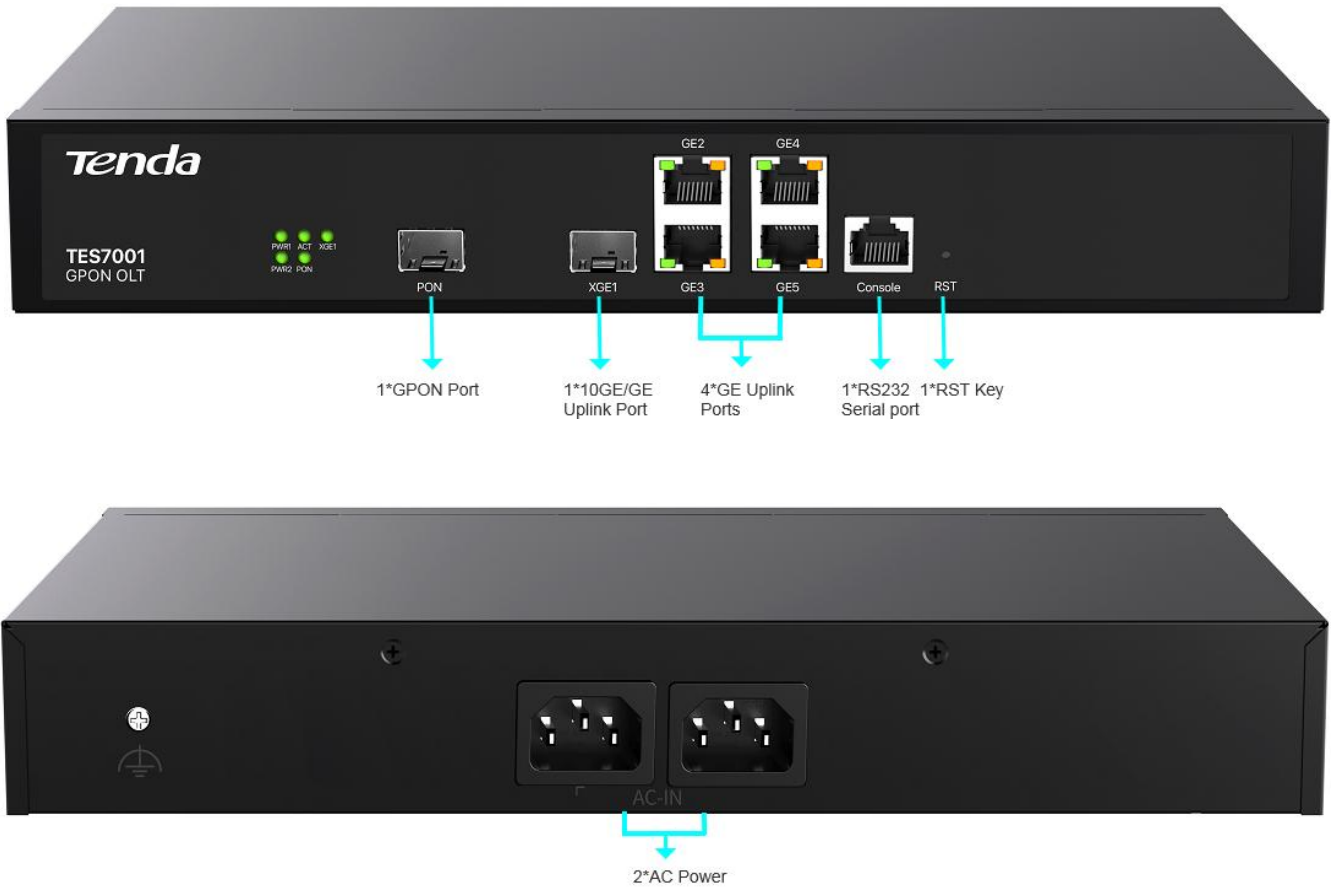
Product topology

- Fiber Cable
- Ethernet Cable
- Catv Cable
- Telephone Cable



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Product interface



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
PON	GPON service port	1	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	Provides a serial port that can manage the system through the local serial port cable

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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
PON	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	

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Specification

Hardware Specification	
Management Rack	1U 13 inch standard box
Size (Wx Dx H)	294mm *180mm *44mm
Weight	1.98kg
Power Supply	AC: 100~240V Dual redundant power supply design
Power Consumption	≤13W
Environment	Working temperature: -20~55°C Storage temperature: -40~85°C Operating humidity: 10~95%
MAC Capacity	4K
Uplink Port	1 *SFP+ 10-Gigabit ports 4 *10/100/1000M auto-negotiation Ethernet ports
PON Port	1*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 Tag/Trunk mode
IGMP	Support IGMP V2/V3 Support IGMP SNOOPING Support Concurrent 512 multicast groups
Loop Detection	Support Loopback
Port Function	Support Port Rate Limit Support Port ingress/egress/both stream Mirror IEEE802.X flowcontrol Support Port Statistic And Monitoring

Advanced Feature	
Efficient Configuration	Provide batch configuring 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-duration luminescence ONT detection

TENDA TECHNOLOGY CO.,LTD.

Tenda Technology Bldg.Int' I E-City,
#1001 Zhong Shan Yuan Rd.,Nanshan District,Shenzhen China.

E-mail:support@tenda.com.cn
Tel:+86-755-2765 7098
Fax:+86-755-2765 7178
PC:518055