Tenda

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TES7008

8-Port GPON OLT
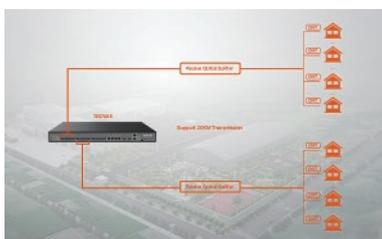
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TES7008

8-Port GPON OLT

Product Description

TES7008 is a terminal device that meets maximum 1024 GPON ONT access, follows ITU G.984.x standard, and is compatible with ITU-T G.984.4/G.988 OMCI protocol also. TES7008 can provide 1*USB interface, 4*uplink GE ports, 4*uplink optical ports, 2*10-gigabit uplink ports, and 8*GPON ports (splitting ratio of 1:128 and provide downstream bandwidth of 2.5Gbps and upstream bandwidth of 1.25Gbps for each port). Adapt varies scenario such as residential areas, office buildings, urban or rural network construction, video surveillance and so on.

Key Features

* Large capacity for ONTs deployment: Provide 8 PON ports, maximum support 1024 ONT terminals.
* High bandwidth uplink ports: 4 *Gigabit Ethernet uplink ports, 4 *Gigabit optical ports and 2* 10-Gigabit uplink ports.
* Easy to manage, support CLI, SNMP, TELNET, SSH, WEB Interface Management.
* Desktop design, flexible deployment.
* Support dual power input.
* Support QoS feature.
* Support 3-Layer Switching.

Product Features

Large capacity for ONTs deployment

Provide 8 PON ports , Maximum support 1024 ONT terminals. Each PON port support 1:128 spectral ratio(maximum access 128 ONTs), also support 20KM transmission. It can fulfill the capacity requirement of clients in different scenarios such as residential area, campus, office building, etc.

High bandwidth uplink ports

TES7008 contains 4* Gigabit Ethernet uplink ports, 4 *Gigabit optical ports and 2 *10-Gigabit uplink ports.

Varies management methods

Support CLI, SNMP, TELNET, SSH, WEB Interface Management, improve management efficiency and reduce maintenance costs.

Desktop design, flexible deployment

1U design, less space occupying, Flexible installation, can be placed on the rack, desk top, etc.

Support dual power input

Dual power input mode, which can be switched according to the working scenario. Support dual DC, dual AC or AC&DC power supply, effectively ensure the stable operation of equipment.

Specification

Hardware Specification	
Management Rack	1U 19-inch standard box
Uplink Port	4 *10/100/1000 Mauto-negotiation Ethernet ports 4 *SFP Optical ports, 2 *SFP + 10-Gigabit ports
PON Port	8*SFP slot, Follow ITU-TG.984.2ClassB+/ClassC+, Max splitting ratio: 1/128
Management Port	1 100/1000BASE-Txout-band Ethernet port 1 CONSOLE local management port
USB Port	1*Type-C interface(Similar to the CONSOLE port function, used for serial port login)
PON Port attribute	Port Transmission distance: 20KM
	Port rate: Downstream: 2.5Gbps Upstream: 1.25Gbps
	Wavelength: Forwarding: 1490nm Receiving: 1310nm
	Interface type: SC/UPC
	Fibertype: 9/125µm SMF(Single Mode Fiber)
	Light transmission power:ClassB+, +1.5~+5dBm/ClassC+, +3~+7dBm
	Receiving sensitivity: ClassB+, -28dBm/ClassC+, -30dBm
	Saturation power: ClassB+ -8dBm/ClassC+, -12dBm

Software Specification	
Management Rack	Support device log, device upgrade, device management, condition monitoring, configuration management, and user management 2-Layer switching configuration management: Like port management, VLAN, RSTP, IGMP, ACL, QOS and so on. PON functioncon figuration management: Like OLT authentication, DBA template, service template, line template and so on. 3-Layer function: support static router, dhcp-client, dhcp-relay and vlanif configuration
PON Features	Standard OMCI management function
	Support 1:128 splitting ratio for each PON port
	Support AES 128 encryption for uplink and downlink data transmission
	DBA algorithm, support 5 DBA types
	ONT management (remote configuration, upgrade, monitor)

Specification

Port	PON Isolation/ ONT Isolation
	802.3x flow control configuration
	Port mirror
	Broadcast/Multicast/Unicast storm control
	Speed and duplex mode configuration
DHCP	DHCP Client
	DHCP snooping
VLAN	VLAN ID: 1~4094
	The ports support Access, Trunk and Hybrid mode
	Support QinQ
	Support VLAN translation
	Support PVID configuration
	Support 802.1q VLAN
Multicast	IGMP v1/v2 snooping
	IGMP fast leave
	IGMP snooping querier
	Multicast VLAN
QoS	4 priority queues
	Priority schedule mode: SP, WRR, SP+WRR
	Support basic ACL, advance ACL and link ACL
	Basic ACL: source IP
	Advance ACL: source IP, destination IP, source port, destination port, DSCP and IP message type
	Support 802.1p priority, VLAN ID, TOS, DSCP remark
	Link ACL: source MAC, destination MAC, VLAN ID, Ethernet type
MAC Address	MAC address table: 64K
	Aging time configuration
	Support MAC address limits
	Support 256 black hole MAC address
	Support 10K Static MAC address
LACP	Load balance based on S-MAC, D-MAC, S-IP, D-IP
	Support 802.1ad link aggregation
Spanning Tree	RSTP
Spanning Tree	Support CLI management
	Support EMS management based on SNMP
	Console port, Management port
	Firmware upgrade through FTP
	OLT and ONT optical module diagnostics
	Log management
	Operation Status monitor
	Log management
	2 levels account management
	Configuration backup and load
	Inbound and outbound management

Specification

Others		
Working environment	Working temperature: 0~50℃	
	Storage temperature: -40~85℃	
	Relativehumidity: 5~90%	
Backplane Bandwidth	86G	
Size	440mm(L)*296mm(W)*44mm(H)	
Weight	4.50kg	
Power supply	AC: 100V~240V, 47~63Hz	
	DC: -48V	
Maximum power	DC: -36V~-72V	

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