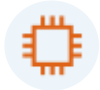


TITAN-1600

16Port GPON OLT



Dedicated Chip



USB Interface



Software Customization



Layer3 Switching

Product Overview

GPON OLT USU-TITAN-1600 completely meet relative standard of ITU G.984.x and FSAN, which is 1U rack-mounted device with 1 USB interface, 2 uplink Ethernet ports, 2 uplink SFP ports, 4*10GE uplink ports and 16 GPON ports. Each GPON port supports the splitting ratio of 1:128, The GPON system supports up to 2048 terminal connections

Functional Feature

🌐 GPON Functionality

- Compliant with ITU-T G.984 / G.988 standards
- Supports OMCI protocol
- T-CONT Dynamic Bandwidth Allocation (DBA)
- GEMPORT traffic management
- ONU auto-discovery
- Ranging function
- Downstream data encryption

📧 Layer 2 Switching

- Access / Trunk / Hybrid L2 access modes
- Supports up to 30K MAC addresses
- Supports 4094 VLANs
- VLAN filtering and LAN transformation
- L2 port mirroring
- Supports 1024 static MAC addresses
- MAC address learning and aging
- MAC address limitation
- Static and Dynamic LACP
- Access Control Lists (ACL)
- Rapid Spanning Tree Protocol (RSTP)

📡 Multicast Functionality

- IGMP snooping
- IGMP v1 / v2 / v3 support
- Multicast VLAN translation

🌐 Layer 3 Switching

- Static routing
- RIP protocol support
- DHCP server / relay / snooping
- ARP proxy

🔊 QoS (Quality of Service)

- Traffic control
- Congestion avoidance
- Queue scheduling
- ACL-based QoS control

📄 Reliability

- 1+1 redundant power modules
- Automatic fan speed adjustment

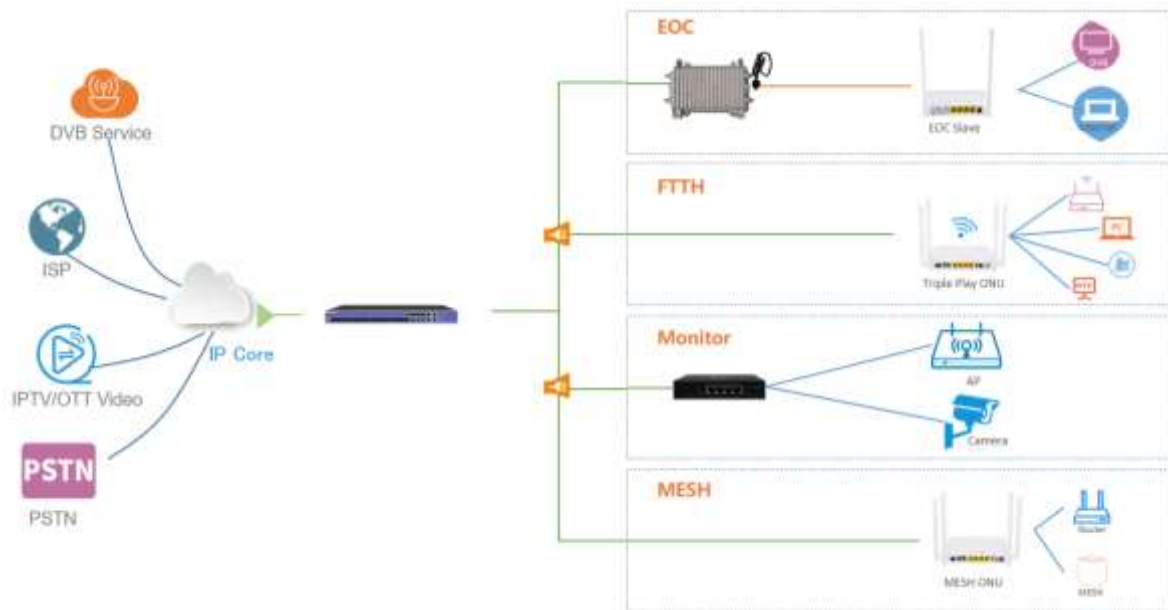
🔧 Management

- CLI / Web / Telnet / SSH / MQTT interfaces
- Performance management
- Alarm management
- Security management

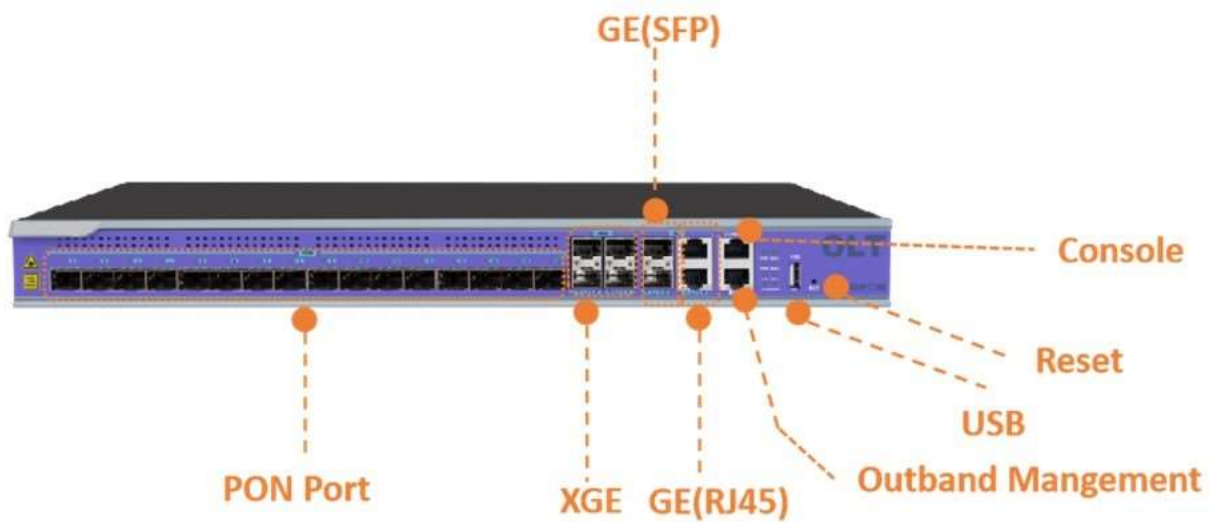
🔍 Maintenance

- Device logging
- Firmware upgrade support
- Fault diagnosis
- Condition monitoring





Product Interface



Product Specification

Mechanics	
Management Rack	1U 19-inch standard box
Dimensions	440mm(L)*276mm(W)*44mm(H)
Weight	4.50Kg

Hardware			
Uplink Port	2 10/100/1000M auto-negotiation Ethernet ports		
	2 SFP interfaces		
	10-Gigabit	4 SFP+ interfaces	
PON Port	Quantity	16	
	Physical interface	SFP slot	
	Interface type	GPON: ITU-TG.984.2 Class B+/Class C+	
	Max splitting ratio	GPON: 1:128	
Management Port		1 100/1000BASE-Tx out-band Ethernet port	
		1 CONSOLE local management port	
USB Port		1 USB interface (It's used to backup configuration, upgrade program, and record log information)	
PON Port attribute	Transmission distance	20KM	
	Port rate	GPON: Downstream: 2.5Gbps Upstream: 1.25Gbps	
	Wavelength	Forwarding: 1490nm Receiving: 1310nm	
	Interface type	SC/UPC	
	Fiber type	9/125μm SMF (Single Mode Fiber)	
	Light transmission power	Class B+ +1.5 ~ +5dBm	Class C+ +3 ~ +7dBm
	Receiving sensitivity	Class B+ : -28dBm	Class C+ : -30dBm
	Saturation power	Class B+ -8dBm	Class C+ -12dBm
Backplane Bandwidth		148G	

Power supply	
AC	100V ~ 240V, 47~63Hz
DC	-40V ~ -72V

Environment	
Working temperature	-15 ~ 50°C
Storage temperature	-40 ~ 85°C
Ambient humidity	5 ~ 90% (non-condensing)

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