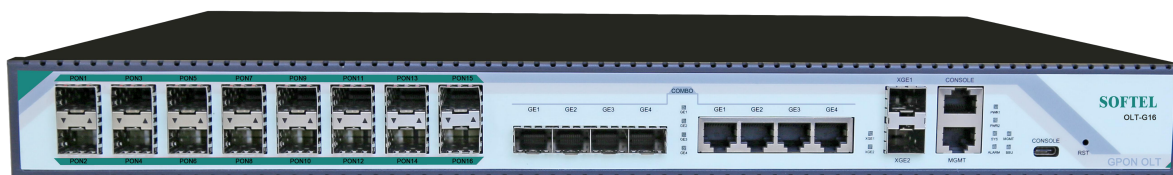## 16 PON Ports GPON OLT

Product Overview

Product GPON OLT OLT-G16 completely meet relative standard of ITU G.984.x and FSAN, which is 1U rack-mounted device with1 USB interface, 4 uplink GE ports, 4 uplink optical ports, 2 10-gigabit uplink ports and 16 GPON ports, each GPON port supports the splitting ratio of 1:128 and provides downstream bandwidth of 2.5Gbps and upstream bandwidth of 1.25Gbps, system support 2048 GPON terminals accessing in for the most. This product meets the requirements in device performance and size of compact server room as the product has high performance and compact size, is convenient and flexible to use, and is easy to deploy as well. Moreover, the product meets the requirements of promoting network performance, improving reliability and reducing power consumption in the perspective of access network and enterprise network and is applicable to three-in-one broadcast television network, FTTP (Fiber to the premise), video monitoring network, enterprise LAN (Local Area Network), internet of things and other network applications with a very high price/performance ratio.

Features

- **Meet ITU-T G.984/G.988 standard and relative GPON standards of Chinese Communication Industry**
- **Support OMCI remote management for ONT/ONU, compatible with ITU-T G.984.4/G.988 OMCI Protocol**
- **1U height 16PON OLT product in compact design of Pizza-Box**
- **Layer 2 Switching Function**

OLT equips with very powerful layer 2 Full Wire Speed Switching and completely supports layer 2 protocol. With working mode of switch, isolate and one by one, OLT supports varieties of layer 2 functions like TRUNK, VLAN, rate limit, queue technology, flow control technology, ACL and so on, which provides technical guarantee for the development of multi-service integrated.

- **Layer 3 Switching Function**

OLT supports layer 3 static router and multicast router

- **QOS Guarantee**

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GPON Products maintains fully-improved DBA with excellent Qos service capabilities. DBA meets different Qos requirements from different service flow in latency, jitter, packet loss rate.
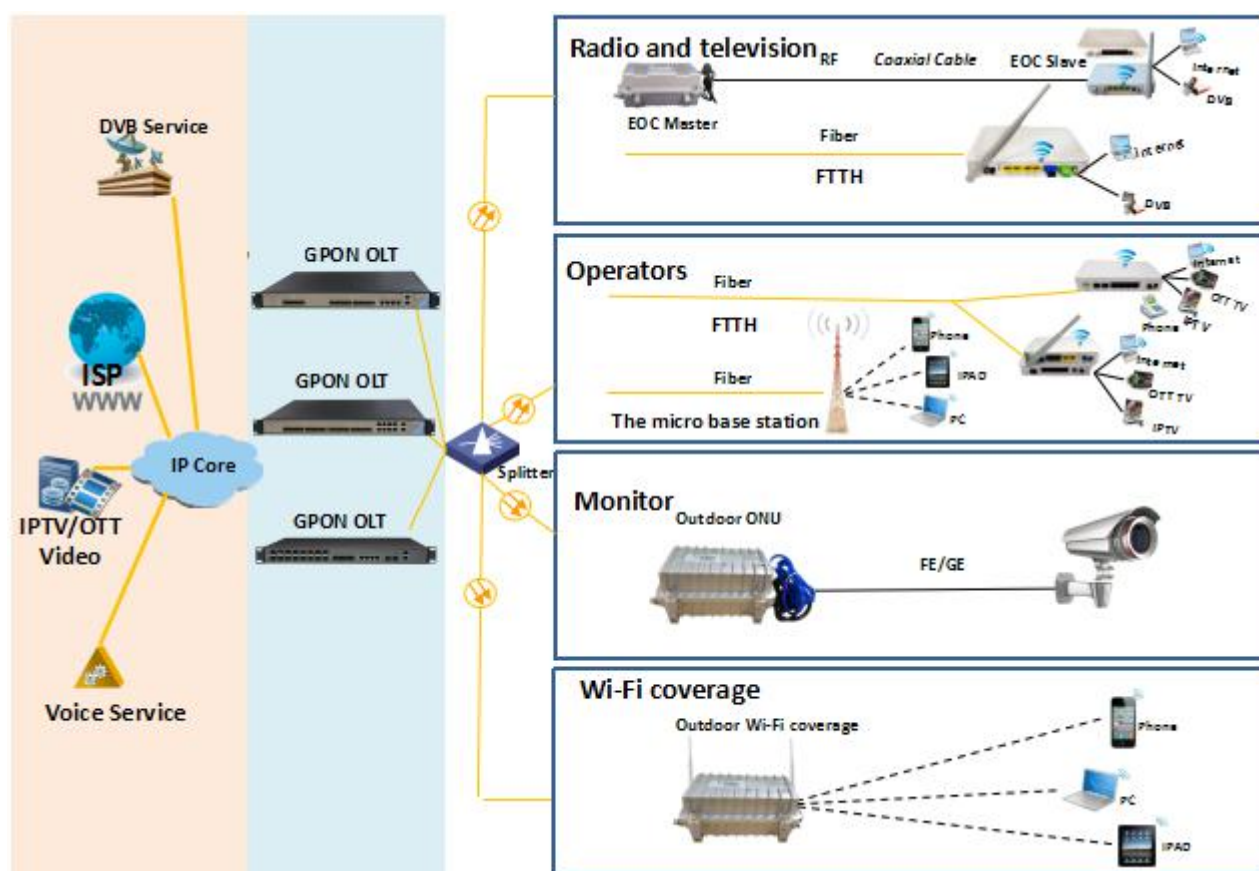
- **Easy-to-Use Management System**

Support management method of CLI, SNMP, TELNET, SSH and WEB and meet OMCI standard, through OMCI channel protocol service management can be realized, including ONT function parameter set, T-CONT business lines and amount, Qos parameters, configuration information request, performance statistics, auto-reporting of running events in system, configuration for ONT from OLT, fault diagnosis and management of performance and safety.

Product Specification

Item		OLT-G16	
Management Rack	Type	1U 19-inch standard box	
	Slot	2 power module slot	
Uplink Port	COMBO port	4 10/100/1000M auto-negotiation Ethernet ports	
		4 SFP interfaces	
	10-Gigabit	2 SFP+ interfaces	
PON Port	Quantity	16	
	Physical interface	SFP slot	
	Interface type	ITU-TG.984.2 Class B+/Class C+	
	Max splitting ratio	1:128	
Management Port		1 100/1000BASE-Tx out-band Ethernet port	
		1 CONSOLE local management port	
USB Port		1 TYPE-3 interface	
PON Port Attribute	Transmission distance	20KM	
	Port rate	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
Network management method		Support CLI、SNMP、TELNET、SSH、WEB	

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Business Capabilities	Support log, upgrade, management function of device, state snooping, configuration management, and user management. Layer 2 switching configuration management: Like port management, VLAN, RSTP, IGMP, ACL, QOS and so on. Layer 2 switching configuration management: Like static router, RIP-V1/V2. PON function configuration management: Like OLT authentication, DBA template, service template, line template and so on.
Backplane Bandwidth	136G
Size	440mm(L)*391mm(W)*44mm(H)
Weight	4kg

Power supply	220VAC	AC: 90V～240V，47/63Hz
	-48DC	DC:-36V～-72V
Maximum power		70W

Working Environment	Working temperature	0～50℃
	Storage temperature	-40～85℃
	Relative humidity	5～90% (Non-condensing)

Typical Application

Ordering Information

Product Name	Model	Product Description
Standalone OLT	OLT-G16	1 U standalone GPON OLT with 16 PON ports, 1 USB interface, 4 uplink COMBO ports, 2 uplink 10-gigabit optical ports and power supply of 220VAC / -48VDC, support dual power redundancy configuration
Ethernet SFP Optical Module	AS60-EG33200-CPLD	20KM twin-fiber type
	AS60-EG35400-CPSS	20KM single fiber type
	AS60-EG53400-CPSS	
Ethernet SFP+ Optical Module	AS60-EQ33101-CPLD	20KM twin-fiber type
	AS60-EQ21201-CPLS	20KM single fiber type
	AS60-EQ12201-CPLS	
OLT SFP Optical Module	AS60-PG43205-CPSS3	ITU-TG.984.2 Class B+
	AS60-PG43206-CPSS4	ITU-TG.984.2 Class C+