



OP-A4000 GPON ONT



OPTOSTAR OP-A4000 GPON ONT is one of the GPON optical network unit design to meet the requirement of the broadband access network. It apply in FTTH/FTTO to provide the data, video service based on the GPON network.

GPON is the latest generations of access network technology. ITU-T G.984 is the standard protocol of GPON. The GPON standard differs from other PON standards in that it achieves higher bandwidth and higher efficiency using larger, variable-length packets. GPON offers efficient packaging of user traffic, with frame segmentation allowing higher quality of service (QOS) for delay-sensitive voice and video communications traffic. GPON networks provides the reliability and performance expected for business services and provides an attractive way to deliver residential services. GPON enables Fiber To The Home (FTTH) deployments economically resulting to accelerated growth worldwide.

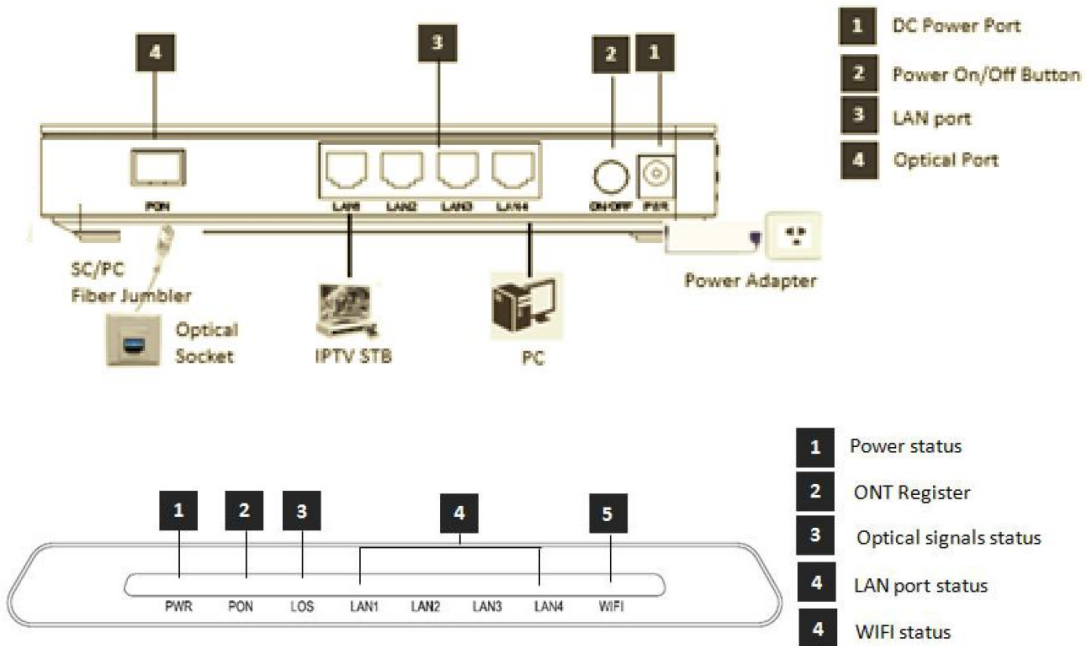
The OP-A4000 features high-performance forwarding capabilities to ensure excellent

experience with Internet and HD video services. Therefore, the OP-A4000 provides a perfect terminal solution and future-oriented service supporting capabilities for FTTH deployment. It has good third-party compatibility to work with the third party OLT, such as Huawei/ZTE/Fiberhome/Alcatel-Lucen.

Features

- Full compatible with ITU-T G.984
- Support 4pcs GE auto-adapting Ethernet ports
- Support OMCI for remote management
- Support Web for local management
- Support Auto-negotiation and MDI/MDIX
- Support the Ethernet interface rate, working mode and flows control
- Support loopback at UNI
- Support packet filtering and anti-illegal message attack protection
- Support performance statistics of Ethernet lines
- Support VLAN tagged label processing, traffic classification and packet filtering, STP/RSTP etc.
- Support IGMP Snooping
- Support AES-128

Interface introduction



Indicator		Description	
1	PWR	Power status	On: The ONT is power on; Off: The ONT is Power off;

2	PON	ONT Register	On: Success to register to OLT; Blinking: In process of registering to OLT; Off: In process of registering to OLT;
3	LOS	GPON optical signals	On: Optical power lower than receiver sensitivity ; Off: Optical in normal
4	LANn	LAN port status	On: Ethernet connection is normal; Blinking: Data is being transmitted through the Ethernet port; Off: Ethernet connection is not set up;
5	WIFI	WIFI	Blinking : Data is being transmitted On : Wi-Fi function Opens

Parameter

Item	Parameters	Specification
Interface	PON Port	1*GPON port, FSAN G.984.2 standard, Class B+ Downstream Data Rate: 2.488Gbps Upstream Data Rate: 1.244Gbps SC/PC single mode fiber 28dB Link loss and 30KM distance with 1:128
	Ethernet Port (LAN)	4*10/100/1000M Auto-negotiation RJ45 ports Full Duplex / Half-Duplex RJ45, Auto-MDI/MDI-X Transmission Distance 100 Meter
	Power Supply Port	12V DC input
Management	Network Management	Standard compliant OMCI interface as defined by ITU-T G.984.4 Support WEB management
	Management Function	Status monitor, Configuration management, Alarm management, Log management
Environmental Specifications	Shell	Plastic casing
	Power	External 12V 1A AC/DC power supply adapter Power consumption: <6W
	Dimensions	170mm(L)*130mm(W)*30mm(H) 0.3kg
	Environment	Operating Temperature: 0~50℃ StorageTemperature: -40~85℃ Operating Humidity: 10%~90%(Non-condensing) StorageHumidity: 5%~95%(Non-condensing)

Application

- ✧ Solution: FTTH、FTTO、PON+EOC
- ✧ Business: Broadband Internet、IPTV、IP Camera

Network Construction

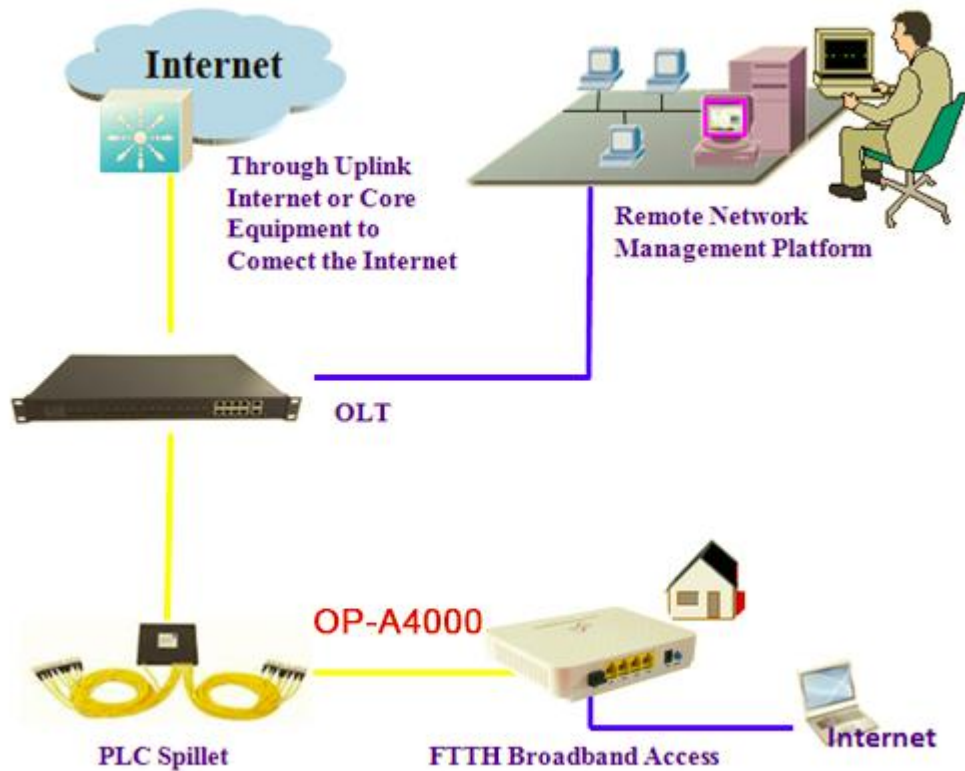


Figure: OP-A4000 Application Diagram

Ordering Information

Product Name	Product Model	Descriptions
GPON ONU	OP-A4000	4X10/100M auto-negotiation Ethernet interface, 1 GPON interface, ABS casing, external power supply adapter