

GPON SFU ONT with 1GbE Port



Perfectly Designed for FTTx Applications

PLANET GPN-100 is a GPON **Optical Network Terminal (ONT)** equipped with one GPON port and **one Gigabit Ethernet RJ45 interface**. When functioning with PLANET GPON **Optical line Terminal (OLT)**, the GPN-100 provides highly-effective GPON solutions for FTTx and multi-service networks. The GPN-100 complies with GPON ITU-T **G.984/G.988 standards** and PRC communications industrial standards for GPON Access technology requirements. With Plug and Play design, it's easy for the installation and maintenance of GPON deployment.



Excellent Access Capacity

The GPN-100 supports PON downstream and upstream transmission rates of **2.5Gbps** and **1.25Gbps**, respectively. Connected with PLANET GPON OLT – GPL-8000, it can realize **1:128 split ratio**. The covering radius of the network can reach up to 20km.

High-service Control Capability

The GPN-100 supports advanced DBA (dynamic bandwidth allocation), rate limit and accurate bandwidth limit, which enable users to share 2.5Gbps bandwidth resource appropriately. It also supports QoS function, which guarantees a reliable service quality and service priority.

Advanced Energy-saving Technique

PLANET GPN-100, adopting the advanced green networking technology, consumes very low power in full load operation mode, which helps conserve energy effectively but maintains high performance efficiently.

Passive Optical Network Connection Solution

With increasing network services such as HDTV, IPTV, voice-over-IP (VoIP) and multimedia broadband applications, the demand for broadband communication has grown quickly. PON is the most promising NGN (next generation networking) technology to meet the needs. As compared to other broadband

GPON Port

- 1 SC type GPON port
- Up to 2.5Gbps downstream and 1.25Gbps upstream
- Maximum distance of up to 20km
- Compliant with ITU-T G.984/988 standards
- LED indicators for link status

Physical Hardware

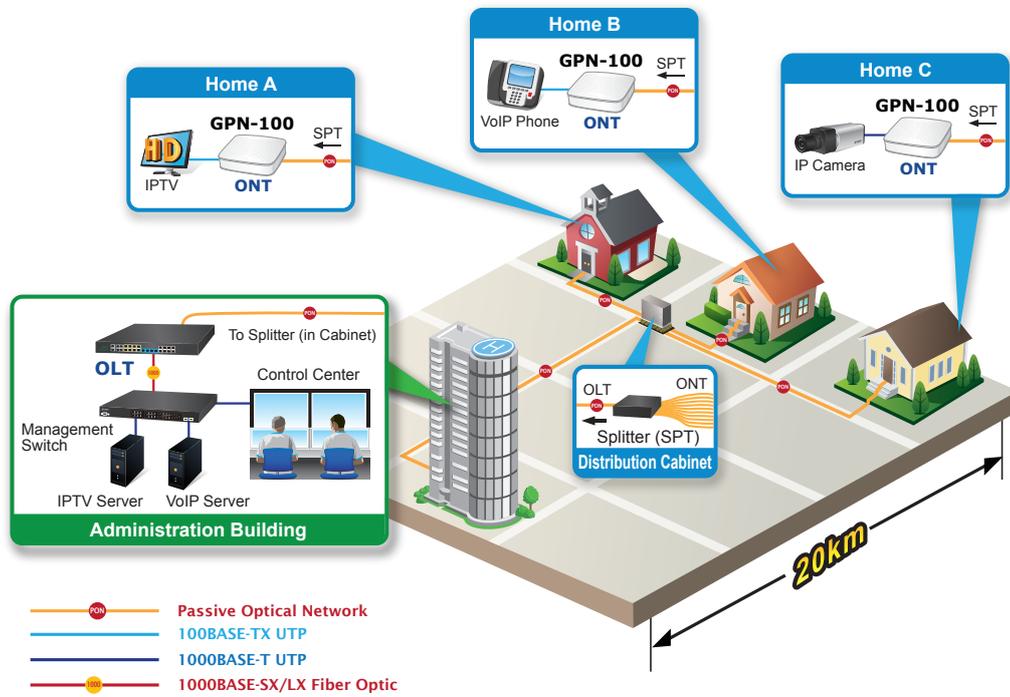
- One 10/100/1000Mbps Gigabit port

GPN-100 Features

- AES128 algorithm encryption
- Dynamic bandwidth allocation (DBA) support
- Service level agreement (SLA) support
- Four priority queues
- WRR, strict priority and FIFO queue schedule algorithms
- Supports IEEE 802.3x flow control

access technologies such as xDSL and cable modem, PON technology offers competitive advantages including a long-term life expectancy of the fiber infrastructure, lower operating costs through the reduction of “active” components, support of long distance of up to 20km between equipment nodes, and most importantly, offer of much greater bandwidth.

Fiber To The Home (FTTH) Application

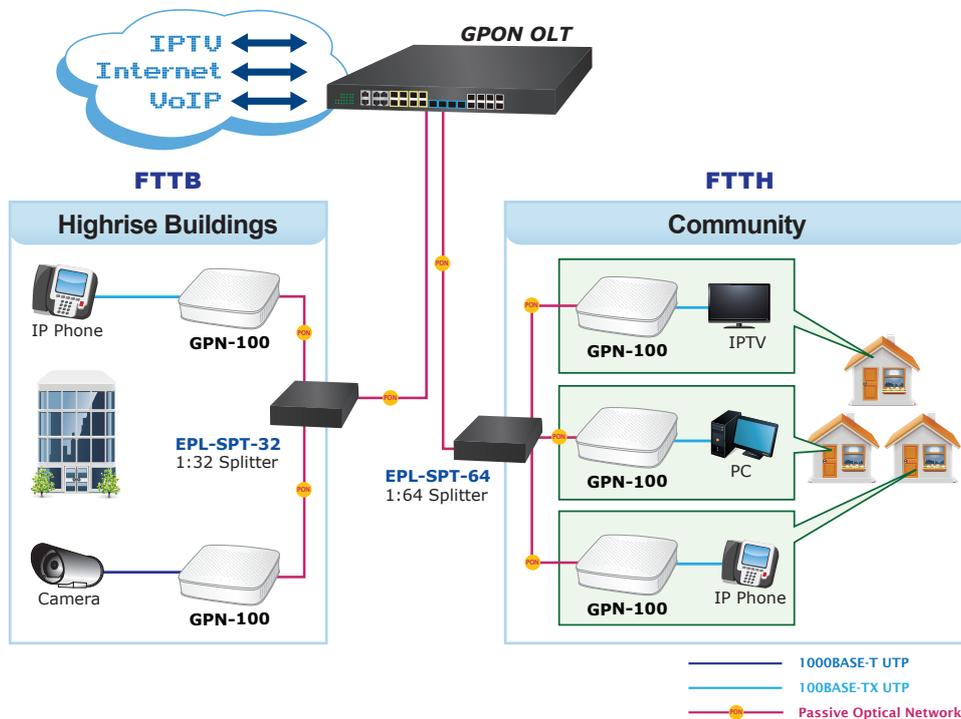


Applications

High Scalability and Flexibility in Multiple Applications

PLANET GPN-100 provides ultra-high-speed Internet connection with PLANET OLT via the new GPON technology. The downstream transmission speed provided is up to 2.5Gbps and upstream transmission speed provided is up to 1.25Gbps, and its maximum distance can be 20km.

Through the PON technology, the GPN-100 can receive and deliver high-speed voice, and data and video services. It offers long-term service, lower operating costs, easy Installation and maintenance, and more stable bandwidth. The GPN-100 is the perfect solution when working with PLANET OLT that offers cost-effectiveness, scalability and flexibility for network deployments.



Specifications

Product	GPN-100	
Hardware Specifications		
Transmission Speed	Downstream: 2.5 Gbps Upstream: 1.25 Gbps	
Port	PON Port	1 x PON Port, SC/UPC
	Ethernet Port	1 x RJ45 (10/100/1000BASE-T)
Fiber Maximum Distance	20km	
Optic Wavelength	TX: 1310nm RX: 1490nm	
Optical Receive Sensitivity	-28 dBm	
Optical TX Power	0.5~5 dBm	
LED Indicators	1 Power LED 1 PON LED 1 LOS LED 1 LAN Link LED	
EMS Utility Specifications		
ONT Features	MAC address learning Supports IGMP snooping 64 MAC addresses support Service level agreement (SLA) support Supports ACL and MAC filtering Remote loop-back test IEEE 802.3ah compliant forward error correction (FEC)	
Environment Specifications		
Dimensions (W x D x H)	80 x 75 x 24mm	
Weight	100g	
Power Input	12V DC, 0.5A	
Temperature	Operating temperature: 0 ~ 50 degrees C Storage temperature: -40 ~ 85 degrees C	
Humidity	Operating Humidity: 10 ~ 85% non-condensing Storage Humidity: 5 ~ 95% non-condensing	
Standards Conformance		
Standards Compliance	IEEE 802.3 10BASE-T IEEE 802.3u 100BASE-TX IEEE 802.3ab 1000BASE-T IEEE 802.3x flow control and back pressure ITU-T G.984/G.988 ITU-T Y.1291	
Safety	CE	

Ordering Information

GPN-100	GPON SFU ONT with 1 GbE Port
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Related Products

GPL-8000	8 PON GPON OLT with 4-Port Gigabit TP/SFP Como + 4-Port 1000X SFP + 4-Port 10G SFP+
GPN-400ACV	GPON HGU with 4-Port GbE, 1200Mbps 802.11AC Wireless and 2-Port FXS (1 x USB)
GPL-GSFP-C+	GPON OLT SFP Transceiver (Class C+, Optical Power: 3dBm~7dBm, Download 2.5G/Upload 1.25G□TX: 1490nm, RX: 1310nm) - 20km
GPL-GSFP-C++	GPON OLT SFP Transceiver (Class C++, Optical Power: 6dBm~10dBm, Download 2.5G/Upload 1.25G□TX: 1490nm, RX: 1310nm) - 20km