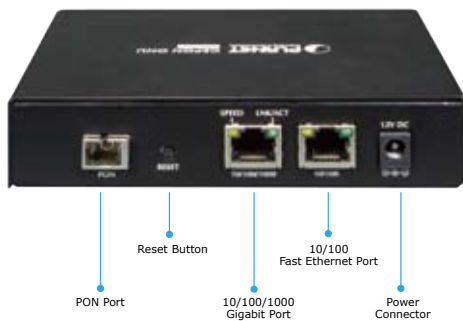


## GEPON SFU ONU with one GE + one FE Port



### Perfectly Designed for FTTx Applications

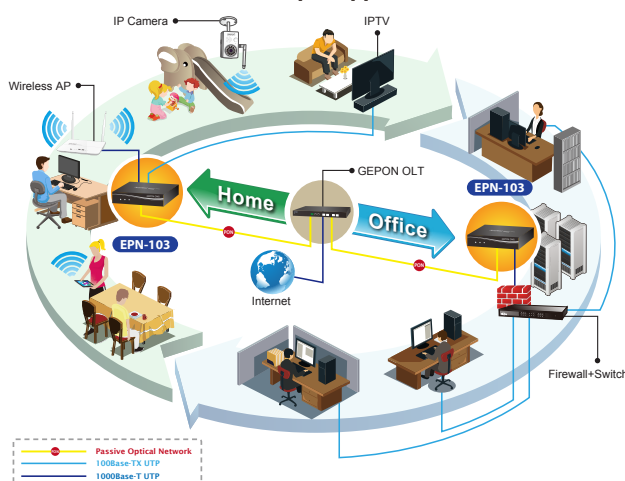
PLANET EPN-103 is a GEPON **Optical Network Unit (ONU)** equipped with one **GEPON ports**, one **Gigabit** and one **Fast Ethernet RJ-45 Interfaces**. By working with PLANET GEPON **Optical Network Terminal (OLT)** EPL-2000, the EPN-103 provides highly effective GEPON solutions for FTTx network. With friendly centralized GUI management, it is easy for installation and maintenance of GEPON deployment.



### Cost-effective Passive Optical Network Connection Solution

With increasing network services such as HDTV, IPTV, voice-over-IP (VoIP) and Multimedia broadband applications, the demand of broadband communication grows quickly. Passive Optical Network (PON) is the most promising NGN (Next Generation Networking) technology to meet the needs. As compared to other broadband access technologies such as xDSL and cable modem, Passive Optical Network (PON) technology offers competing advantages including a long-term life expectancy of the fiber infrastructure, lower operating costs through the reduction of "active" components, supporting up to 20km long distance between equipment nodes, and most importantly, providing much greater bandwidth.

### EPN-103 Multiple Application



### GEPON Port

- 1 x SC type GEPON Port
- Up to 1.25Gbps Upstream and Downstream
- Maximum up to 20km distance
- Compliant with IEEE 802.3ah
- LED indicators for link status

### Physical Hardware

- 1 x 10/100Mbps Fast Ethernet Port
- 1 x 10/100/1000Mbps Gigabit Port
- 1 x Reset Button
- 1 x Power Connector

### Features

- Dynamic Bandwidth Allocation (DBA) support
- IEEE 802.3ah compliant Forward Error Correction (FEC)
- Supports up to 64 MAC Address
- Enhanced IGMP features
- 1.5 MB of integrated packet buffering
- Supports Layer-2/3/4 classification rules
- Supports IEEE 802.3x flow control
- Internal Management Information Base (MIB) counters for network statistics

### Robust ONUs Management

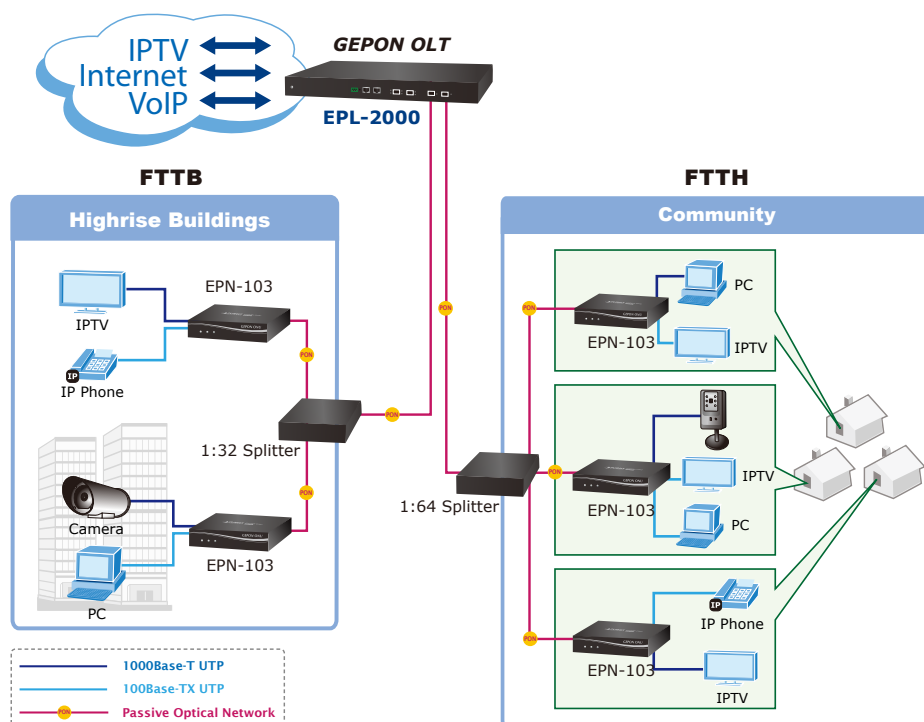
The EPN-103 is designed to work with PLANET 2-Port OLT EPL-2000 to provide robust FTTx applications. By the built-in **Element Management System (EMS)** in the EPL-2000, the administrators can manage and configure the facilities such as adding or removing PLANET OLTs and ONUs, from the network architecture easily and economically. The EMS also supports many operating and monitoring functions for efficient ONUs management including ONU auto-detection, auto-registration, testing link connection, binding MAC address, Loopback Test and filtration, bandwidth control, flow control, and multicast stream control.



## Application

### High Scalability and Flexibility in Multiple Applications

The PLANET EPN-103 provides ultra-high speed Internet connection with PLANET OLT (EPL-2000) via new GEPON technology. The upstream and downstream transmission speed provided is up to 1.25Gbps and distance can be 20km maximum. Through the PON technology, the EPN-103 can receive and deliver high-speed voice, data and video services. It offers competitive advantages including a long-term life expectancy of the fiber infrastructure, lower operating costs from the reduction of "active" components, easy Installation and maintenance, and most importantly, providing much greater and more stable bandwidth. The EPN-103 is the perfect solution working with PLANET 2-Port OLT EPL-2000 to offer benefits of cost-effectiveness, scalability and flexibility to network deployment.



## Specification

Product		GEPON SFU ONU with one GE + one FE Port	
Model		EPN-103	
Hardware Specification			
Transmission speed		Downstream: 1.25 Gbps Upstream: 1.25 Gbps	
Port	PON Port	1 x PON Port	
	Ethernet Port	1 x RJ-45 ( 10/100Base-TX) 1 x RJ-45 (10/100/1000Base-T)	
Fiber Maximum Distance		20km	
Optic Wavelength		TX: 1310mm RX:1490mm	
Optical Receive Sensitivity		-27 dBm	
Input Saturation Power		-3 dBm	
Signal Detect – Assert Power		-27 dBm	
Signal Detect – De-assert Power		-42 dBm	
LED Indicators		1 x Power LED 1 x PON LED 1 x Link LED	
Dimension (W x D x H)		132 x 96 x 29 mm	
Weight		360g	
Power Input		12V DC, 1A	
EMS Utility Specification			
ONU Feature		MAC address learning Supports IGMP Snooping 64 MAC Addresses support Service Level Agreement (SLA) support Remote loop-back test Supports ACL and MAC Filtering IEEE 802.3ah compliant Forward Error Correction (FEC)	
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 IEEE 802.1w Rapid Spanning Tree Protocol	
Safety		FCC Part 15 Class B, CE	
Environment Specification			
Temperature		0 ~ 50 Degree C (32 ~ 122 Degree F) 10 ~ 90%, non condensation	
Humidity		Operating: 10 ~ 90% non-condensing Storage: 5 ~ 95% non-condensing	

## Ordering Information

EPN-103	GEPON ONU (1-PON Interface, 1-Port FE + 1-Port GE Interface / Metal)
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## Related Product

EPL-2000	2-PON Port GEPON OLT with Uplink 2-Port 1000Base-X SFP Slot
EPN-102	GEPON ONU (1-PON Interface, 1-Port FE + 1-Port GE Interface / Plastic)
EPL-SPT-32	GEPON Splitter (1 x 32 PLC Splitter, Wavelength 1260 ~ 1650 nm)
EPL-SPT-64	GEPON Splitter (1 x 64 PLC Splitter, Wavelength 1260 ~ 1650 nm)

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EPN-103