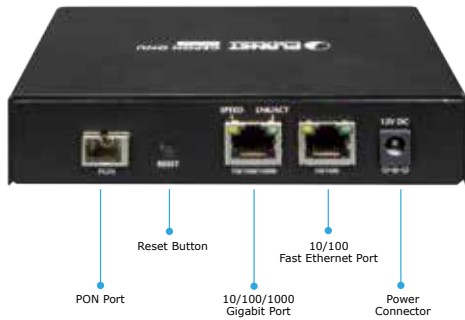


GEPON SFU ONU with one GE + one FE Port



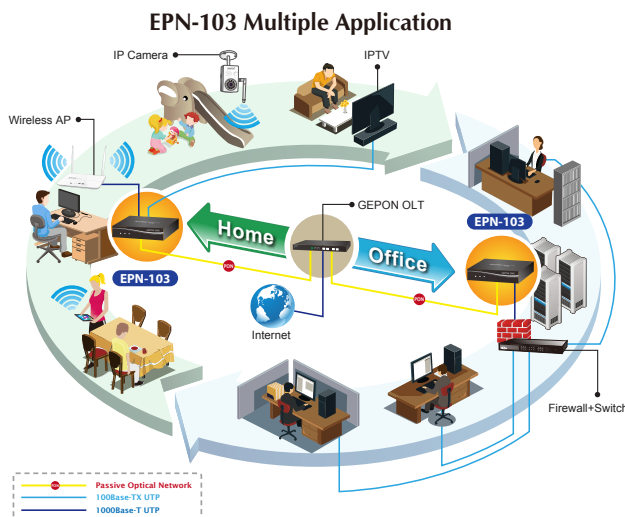
Perfectly Designed for FTTx Applications

PLANET EPN-103 is a GEPON **Optical Network Unit (ONU)** equipped with **one GEPON port, one Gigabit and one Fast Ethernet RJ-45 interface**. When functioning 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 has grown 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 competitive advantages including a long-term life expectancy of the fiber infrastructure, lower operating costs through the reduction of “active” components, support of up to 20km long distance between equipment nodes, and most importantly, offer of much greater bandwidth.



GEPON Port

- 1 x SC type GEPON Port
- Up to 1.25Gbps data rate in both upstream and downstream directions.
- Maximum distance of up to 20km.
- 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

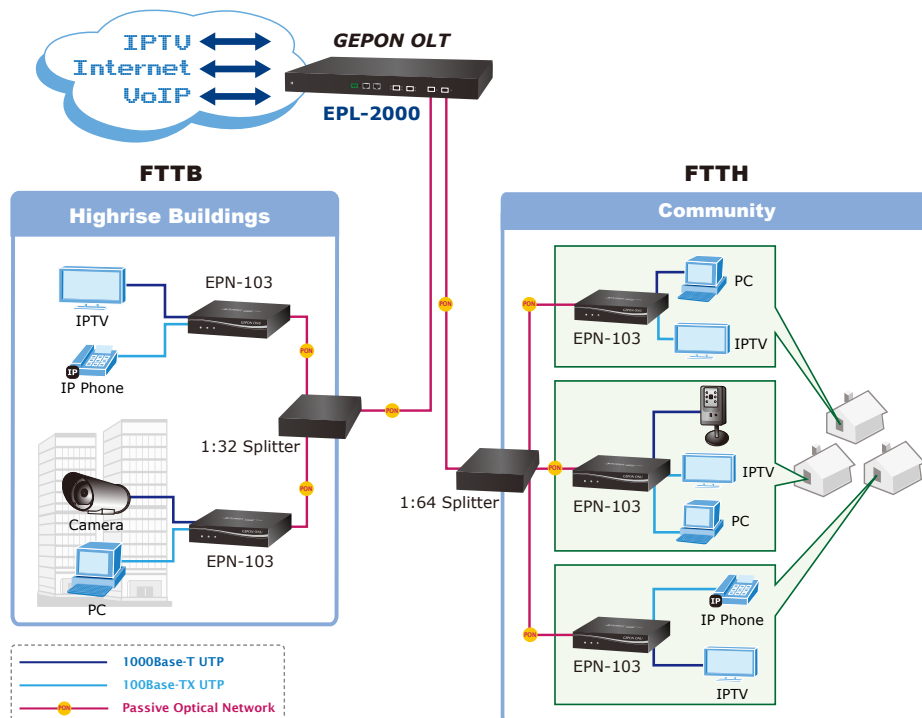
The EPN-103 is designed to work with PLANET 2-Port OLT EPL-2000 to provide robust FTTx applications. With the **Element Management System (EMS)** built in the EPL-2000, the administrators can manage and configure the facilities such as adding or removing PLANET OLTs and ONUs to or from the network architecture 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.



Applications

High Scalability and Flexibility in Multiple Applications

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 its maximum distance can be 20km. 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, offer of 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.



Specifications

Product	GEPON SFU ONU with one GE + one FE Port	
Model	EPN-103	
Hardware Specifications		
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: 1310nm RX:1490nm	
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	
Dimensions (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 degrees C (32 ~ 122 degrees F) 10 ~ 90%, non-condensing	
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)]
---------	---

Related Product

EPL-2000	GEPON OLT (Teknovus, 2-PON Interface, 2 x GbE SFP, 1 x MGT Port)
EPL-SPT-8	GEPON Splitter (1 x 8 PLC Splitter, Wavelength 1260 ~ 1650 nm)
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)