



PLANET EPN-104

The Best Point-to-Multipoint Fibre Technology

GEAPON provides high speed Internet access for services such as HDTV, IPTV, voice-over-IP (VoIP) and Multimedia broadband applications. Passive Optical Network (PON) is the NGN (Next Generation Networking) technology for broadband access. PON technology offers competitive advantages including a long product life expectancy, lower operating costs through the reduction of “active” components, supporting up to 20km distance between equipment nodes, and most importantly, providing much greater bandwidth.

PLANET EPN-104 is the GEAPON SFU ONU devices designed with one GEAPON port, four standard 10Base-T / 100Base-TX Ethernet ports for subscriber access.

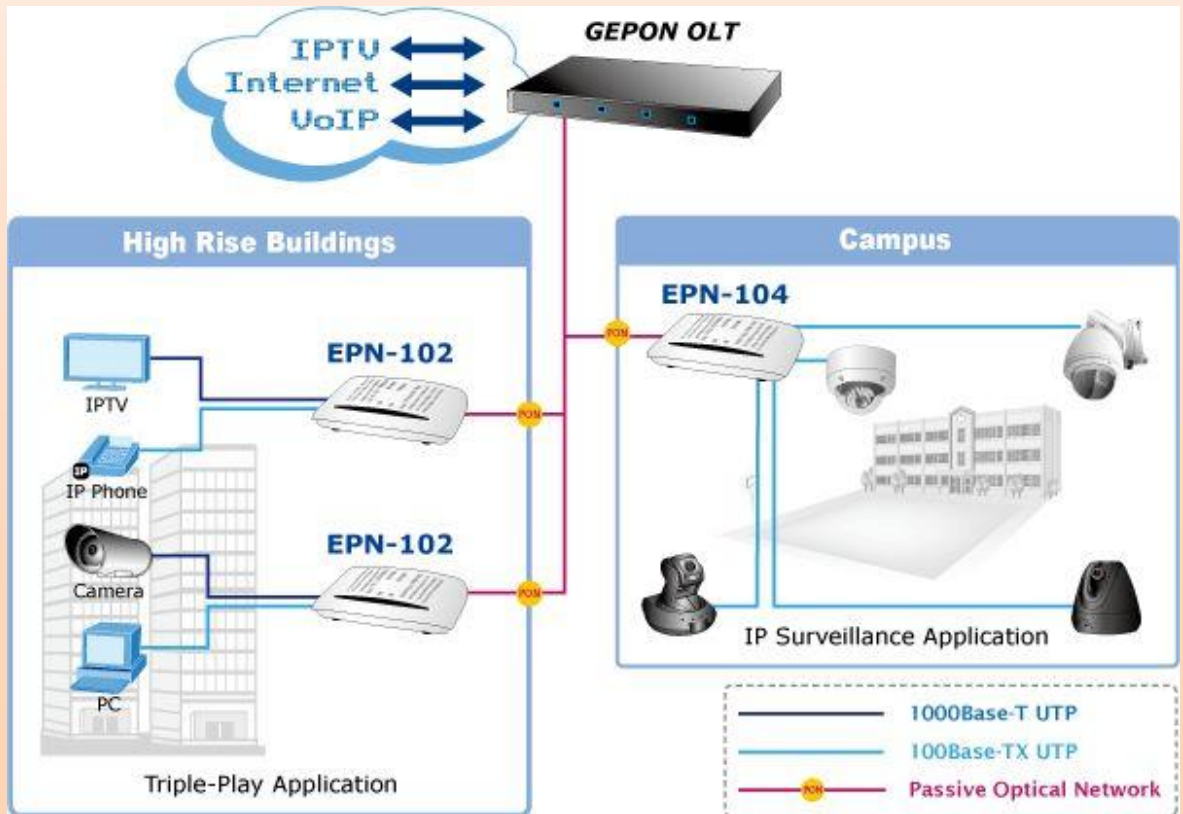
PLANET EPN-104 provides the core functionality of an 802.3ah Ethernet Passive Optical Network (EPON) Optical Network Unit (ONU) solution. In addition, the device also offers advanced functions such as QoS for Triple-play service, VLAN, Authentication and Encryption for Security.



Application

Internet Connection with IPTV, Internet, and VoIP

The PLANET EPN-104 provides ultra-high speed Internet connection via GEAPON technology, with transmission speeds up to 1.25Gbps over distances of up to 20km.,



EPN-104 Specifications



PLANET EPN-104

GEPON

1.25
Gbps



802.1Q
VLAN

QoS



Model	EPN-104
Hardware	
Transmission speed	Downstream: 1.25 Gbps Upstream: 1.25 Gbps
Wavelength	Downstream: 1490nm Upstream: 1310nm
Optical specification	Downstream: Min. receive sensitivity: -26dBm Max. receive saturation power: -3dBm Upstream: Min. output optical power: -1 dBm Max. output spectrum width (RMS): 3nm
Connection cable	G.652 single mode fibre
Ports	LAN:4 (10Base-T/100Base-TX, Auto-Negotiation, Auto MDI/MDI-X) WAN:1 (1.25G EPON interface with SC type connector, 1000Base-PX-20)
LED Indicators	PWR, Link, Alarm PON / System, LAN 1-4
Button	1 x reset button, 1 x power button
Software	
EPON Features	Compliant with IEEE 802.3ah 802.3ah Forward Error Correction for an improved link budget Operation Administration Management (OAM) protocol based on IEEE 802.3ah Dynamic Bandwidth Allocation (DBA) Support
Protocol / Feature	IEEE 802.3 compliant 10Base-T / 100Base-TX 802.1Q VLAN 802.1P QoS
Security	128-bit Advanced Encryption Standard (AES) encryption for both downstream and upstream directions 802.1x authentication engine with remote administration for device and user authentication
QoS	Supports QoS based upon Port, IEEE802.1p, IPv4 Type of Service (ToS) or Differentiated Services (Diff-Serv), IPv6 Traffic Class, 802.1Q VLAN ID, Destination MAC address or Source MAC address
Management	Cooperated with centre OLT, implement management configuration and software upgrade to ONU
Other Features	up to 8 Logical Link IDs (LLID) 64 MAC Addresses 40 Queues (20 upstream / 20 downstream) 1.5 MB of integrated buffering up to 256 layer-2/3/4 classification rules full-duplex 802.3x flow control and backpressure Internal Management Information Base (MIB) counters for network statistics
Environment Specification	
Dimension (W x D x H)	176 x 124 x 35 mm
Power	12V DC, 1.0A
Temperature	Operating: 0 ~ 50 Degree C Storage: -20 ~ 70 Degree C
Humidity	Operating: 10 ~ 90% non-condensing Storage: 5 ~ 95% non-condensing
Emission	FCC, CE