PLANET
Networking & Communication

2-Port GEPON OLT

EPL-2220

High-Performance Internet Solution
for FTTx and Triple Play Applications

GEPON

GEPON SFU ONU

PLANET

VDSL2

VDSL2 Converter

PLANET

IPTV

Internet

Online Gaming

VoIP via Wi-Fi

Broadband Communication

PLANET Last Mile Transmission Solution provides not only CO (Central Office) side of equipment for ISPs but also CPE (Customer Premises Equipment) side of device for end users. Its high bandwidth certainly meets the requirements of triple play devices for today's home entertainment and communications.

Delivering Highly-demanding Connectivity for ISPs/Triple Play Devices

With the capability of 100/100Mbps symmetric data transmission, PLANET VDSL2 Solution enables many multi-media services, such as VoD (Video on Demand), Voice over IP, video phone, IPTV, Internet caching server, distance education and so on, to work on the Internet without any reservation.

1.25Gbps High-speed and 20km Long-distance Coverage for Triple Play Services

PLANET GEPON Solution provides a high bandwidth of up to 1.25Gbps for both upstream and downstream, and a long-distance coverage of up to 20km between equipment nodes for network deployment, thereby meeting the demand of increasing home multimedia and entertainment.

Managing Your Office from Your Mobile Device

Users have an IP PBX phone number including an office extension number where calls ring simultaneously on their mobile device, making it easy to connect one another wherever they are. Access to people, messages and information helps mobile users deliver whether they are in or out of the office.

GEPON

Network Management

LAN Switches

Industrial Ethernet

Power over Ethernet

Media Conversion

Broadband Communication

Wireless LAN

IP Surveillance

IP Telephony

Network Security

Network Peripheral

Home Automation

EPL-2220

GEPON OLT

- Optical split ratio: Up to 1:64
- 2-PON interface, 2 x GbE SFP, 2 x 1000BASE-T RJ45, 1 x MGT port
- Supporting up to 16K MAC address table
- Supporting 802.1Q VLAN
- Up to 32 OLTs management through EMS
- User-friendly WEB management interface

EPN-110

GEPON ONU

- PON interface, 1-port GE interface
- Dynamic bandwidth allocation (DBA) support
- Supports 64 MAC addresses

EPL-SPT-8/EPL-SPT-32/EPL-SPT-64

GEPON Splitter

- 1 : 8 high split ratio (EPL-SPT-8)
- 1 : 32 high split ratio (EPL-SPT-32)
- 1 : 64 high split ratio (EPL-SPT-64)
- Wide operating wavelength:1260nm to 1650nm
- Wide operating temperature: -40 to 85 degrees C

Perfectly Designed for FTTx Applications

With growing network services such as HDTV, IPTV, Voice-over-IP (VoIP) and multimedia broadband applications, the demand for broadband increases quickly. The present broadband environment is not in accord with the requirements; however, Passive Optical Network (PON) would be the most promising NGN (Next Generation Networking) technology to fulfill the demand.

- PON interface complies with IEEE 802.3ah
- Up to 20km in distance
- Up to 1.25Gbps upstream and downstream
- Dynamic bandwidth allocation (DBA) support
- Supports IEEE 802.1q VLAN
- Point-to-multipoint network topology
- Up to 32 OLTs management through single GUI
- User-friendly GUI management

Fiber To The Home (FTTH) Application

Home A
IP Camera
IPTV
ONU
SPT

Home B
Internet
VoIP Phone
ONU
SPT

Home C
IP Camera
IPTV
HD
ONU
SPT

EPL-2220
To Splitter (in Cabinet)
Control Center
Management Switch
IPTV Server   VoIP Server
Administration Building

OLT   ONU
Splitter (SPT)
Cabinet

20km

- **Passive Optical Network**
- **100BASE- TX UTP**
- **1000BASE- T UTP**
- **1000BASE- SX/LX Fiber- optic**
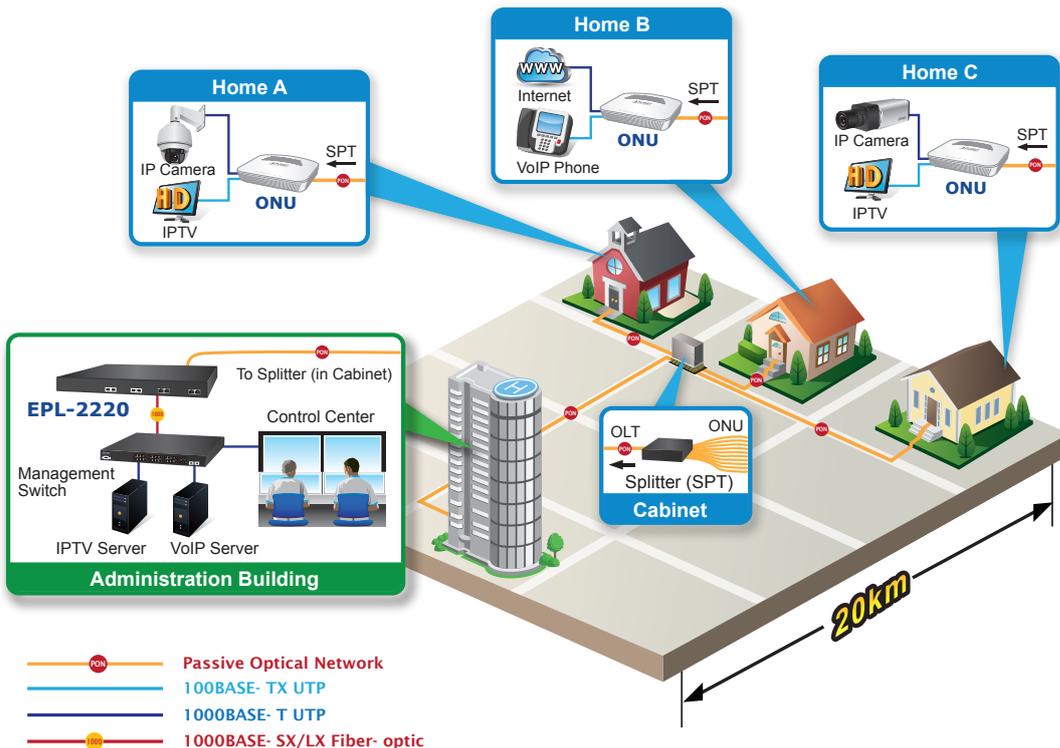
VDSL2 IP DSLAM/CO Switches

VC-820M

8-port VDSL2 CO + 2G TP/SFP combo managed switch

- 8-port VDSL2 CO subscriber interface
- Built-in POTS splitter for each VDSL port.
- Auto-MDI/MDI-X detection on Gigabit RJ45 port.
- ITU-T G.993.2 VDSL2 standard.
- DMT (Discrete Multi-Tone) line coding VDSL.
- Supports VLAN,GVRP, Private VLAN, Spanning Tree.
- Supports QoS (IEEE 802.1p CoS- IP ToS/DSCP), IGMP, RADIUS.

Perfectly Designed for FTTx Last Mile Applications

PLANET VC-820M is a telecom-level, high-performance VDSL2 IP DSLAM (Digital Subscriber Line Access Multiplexer) with 8-port VDSL2, 2-port Gigabit TP/SFP combo interfaces and robust Layer 2 switching features. The VC-820M is fully compliant with the ITU-T G.993.2 standard and supports VDSL2 30a profiles to offer maximum download and upload line rate up to 100/100Mbps on the existing twisted pair lines. The VC-820M provides service providers with high bandwidth for triple-play services such as IPTV, HDTV, video phone and Internet gaming on the same copper line, and uplink to the core/metro Ethernet network through the two Gigabit fiber optical interfaces. It is an ideal CO solution for FTTx Last Mile applications of broadband access by ISPs, telecoms and campuses.

Hotel Application
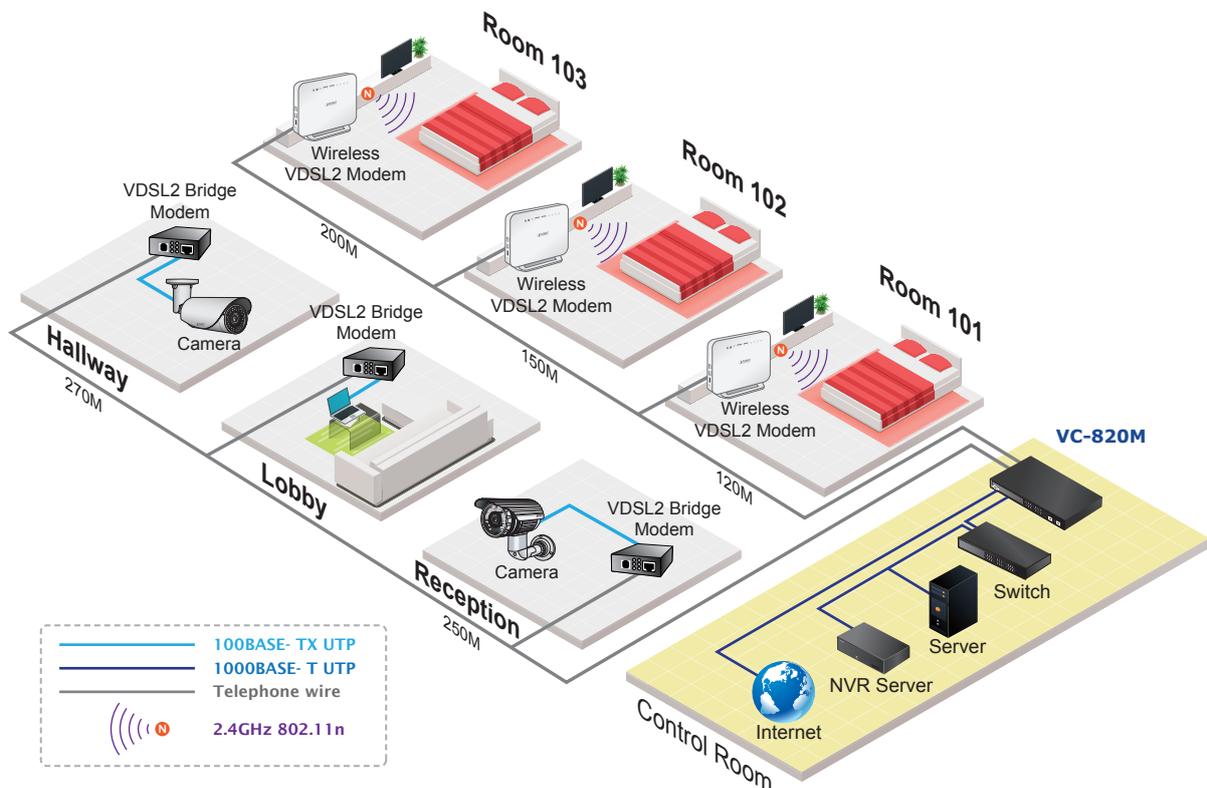
VDSL2 Bridges/Routers

High-Performance VDSL2 Data Rate over Existing Phone Lines

PLANET 30a VDSL2 Solution contains various VDSL2 CPE (customer premises equipment) models for telecoms, ISPs (internet service providers), SIs (system integrators), IP surveillance providers, etc. It is based on two core networking technologies -- Ethernet and VDSL2 (very-high-data-rate digital subscriber line 2). The total VDSL2 solution offers the absolutely fastest data transmission speeds over the existing cooper telephone lines without the need of rewiring. The ideal xDSL technology provides the best solution to the last-mile connectivity.

Ethernet over VDSL2 Converter

- One box design, CO/CPE selectable via DIP switch
- ITU-T G.993.2 VDSL2 (Profile 17a or Profile 30a)
- Built-in POTS splitter
- Compact in size, easy installation
- 10-/19-inch chassis compatible (MC-700/MC-1500/1500R)

VDSL2 Point to Point Application for Best Performance
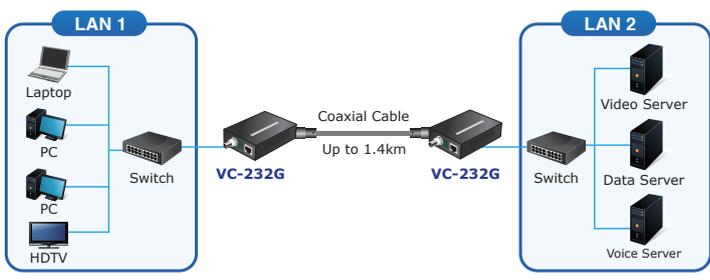
VDSL2 Point to Multi-Point Application for Flexible Deployments

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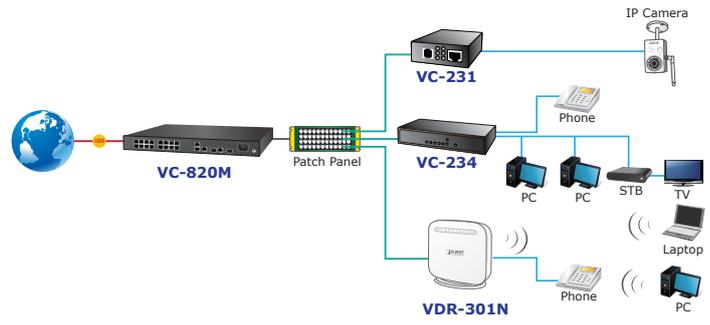
VC-231

High bandwidth 10/100TX over VDSL2 Media Converter

- VDSL2 ITU-T G.993.2 30a profile
- 100/100Mbps download/upload @1000ft
- 1-port 10/100BASE-TX RJ45

VC-234

High bandwidth 4-port 10/100TX to VDSL2 Bridge

- VDSL2 ITU-T G.993.2 30a profile
- 100/100Mbps download/upload @1000ft
- 4-port 10/100BASE-TX RJ45

VDR-301N

300Mbps Wireless VDSL2 Bridge Router

- Built-in VDSL2 modem
- G. vectoring
- Multiple WAN connections
- Supports IPv6
- TR069 compliant
- Traffic Shaping for traffic control

VC-231G/VC-231GP

1-port 10/100/1000T Ethernet over VDSL2 Media Converter

- One RJ11 connector for VDSL connection
- One 10/100/1000BASE-T RJ45
- ITU-T G.993.5 G.vectoring and G.INP
- Upstream/Downstream bandwidth up to 200/100Mbps
- CO/CPE mode selectable via DIP switch
- Selectable target band plan and SNR margin
- 30-watt 802.3at PoE+ PSE (VC-231GP)

VC-232G

1-port 10/100/1000T Ethernet over Coaxial Media Converter

- One BNC connector for VDSL connection
- Uses existing RG59/RG6 coaxial cable
- One 10/100/1000BASE-T RJ45
- ITU-T G.993.5 G.vectoring and G.INP
- Upstream/Downstream bandwidth up to 200/100Mbps
- CO/CPE mode selectable via DIP switch
- Selectable target band plan and SNR margin

VC-234G

4-port 10/100/1000T Ethernet to VDSL2 Bridge

- One RJ11 connector for VDSL connection
- One phone connector for telephone connection
- Four 10/100/1000BASE-T RJ45
- ITU-T G.993.5 G.vectoring and G.INP
- Upstream/Downstream bandwidth up to 200/100Mbps
- CO/CPE mode selectable via DIP switch
- Selectable target band plan and SNR margin

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