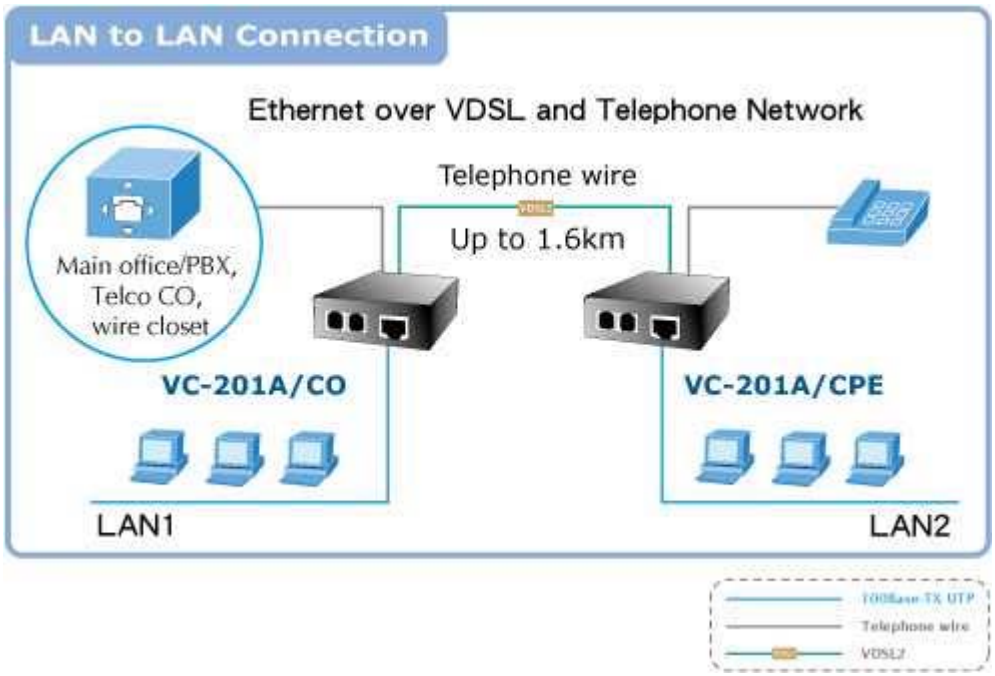
VC-201A 100Mbps Ethernet LAN Extender

Key Features

- Cost-effective VDSL2 CO / CPE bridge solution
- One box design, CO / CPE selectable via DIP Switch
- Defines asymmetric (Plan 998) and symmetric (Plan 997) band plans for the transmission of upstream and downstream signals
- Complies with IEEE 802.3, IEEE 802.3u and IEEE 802.3x standards
- DMT (Discrete Multi-Tone) line coding
- Half duplex Back pressure and IEEE 802.3x Full Duplex Pause frame flow control
- Built-in POTS splitter to share voice and data
- Two RJ-11 connectors for each VDSL port, one for VDSL connection and one for POTS connection
- Voice and data communication can be shared simultaneously based on the existing telephone wire
- Supports up to 1536 bytes packet size, IEEE 802.1Q VLAN tag transparent
- VDSL2 stand-alone transceiver for simple bridge modem application
- Advantage of minimum installation time (Simply Plug-and-Play)
- Selectable target band plan and target SNR margin
- Supports extensive LED indicators for network diagnostics
- Co-work with PLANET MC family Media Chassis (MC-700 / 1500/ 1500R)
- Compact in size, easy installation



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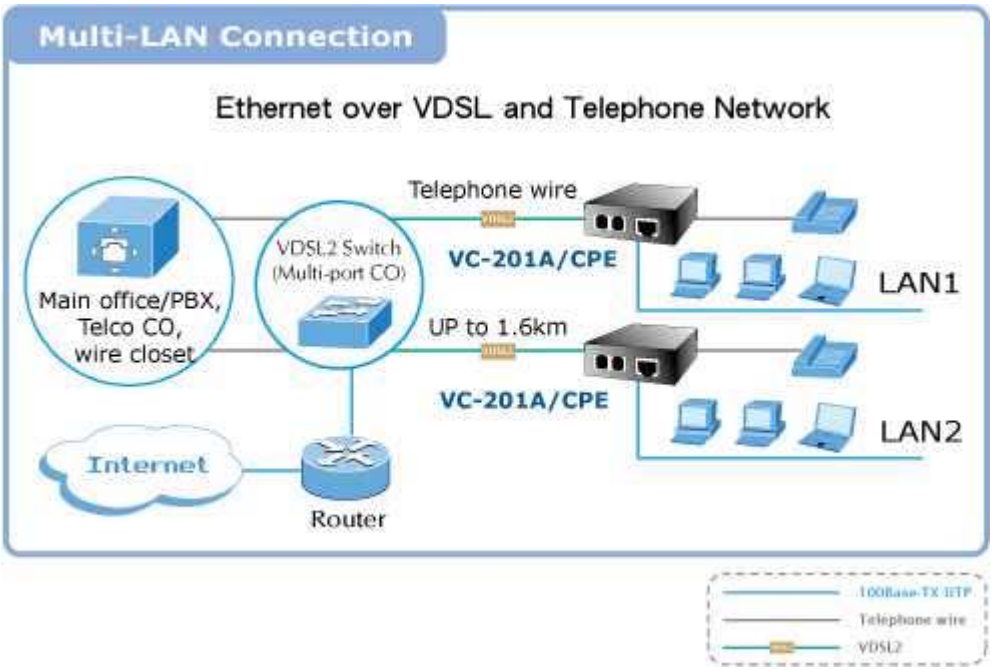
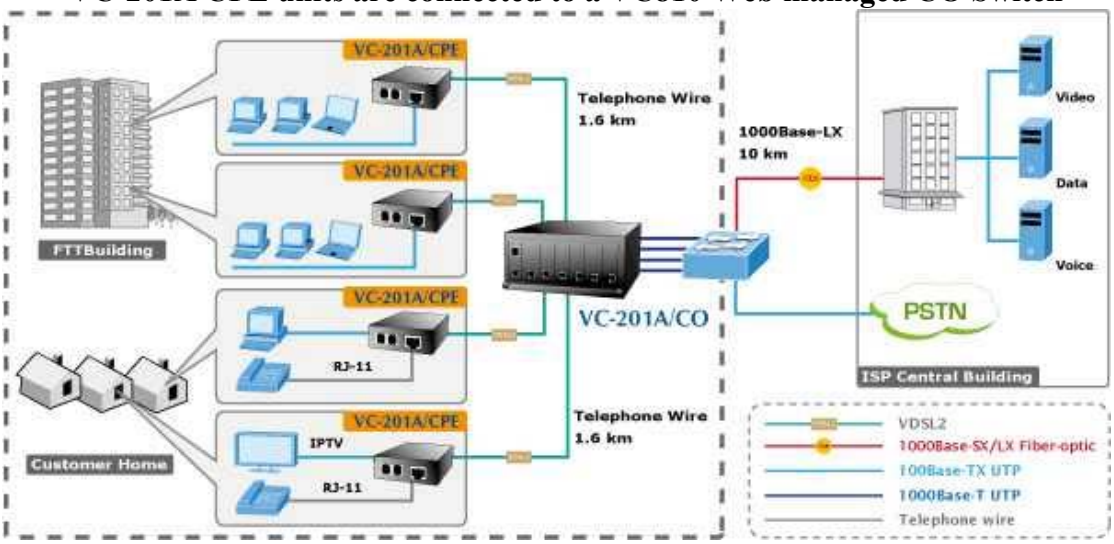
VC-201A Applications



VC-201A CPE units are connected to a VC810 Web managed CO Switch



Last Mile of FTTx deployment

The VC-201A is an ideal solution for FTTx (Fibre to the Building, Fibre to the Campus or Fibre to the Node) applications. It supports high bandwidth VDSL2 over existing telephone wires in the “last mile” from the ISP / Telecom / Service provider’s fibre node to the buildings and customers´ home. The 10/100Mbps port of VC-201A can be directly connected to a PC or to Ethernet devices such as Ethernet Switches or Broadband Routers. It is excellent for phone line network built by Internet because every room or house could use the existing phone line to transmit data through the Internet and the whole building could share the Internet to the wider area network with minimum cost.

VC-201A Specifications

Model	VC-201A
Hardware Specification	
Ports	10/100Base-TX: 1 RJ-45, Auto-negotiation and Auto-MDI / MDI-X VDSL: 1 RJ-11, female Phone Jack PHONE: 1 RJ-11, Built-in splitters for POTS connection
DIP Switch	4 position DIP switch
Functionality	• CO / CPE mode select • Selectable fast and interleaved mode • Selectable target band plan • Selectable target SNR mode
Encoding	• VDSL-DMT - ITU-T G.993.1 VDSL - ITU-T G.997.1 - ITU-T G.993.2 VDSL2 (Profile 17a Support)
LED Indicators	• One Power • 3 for RJ-11 / VDSL2 WAN : - Green, LNK / ACT - Green, CO mode - Green, CPE mode • 2 for per RJ-45 10/100Base-TX port - Green, LNK / ACT - Green, Speed
Cabling Type	• 10Base-T: 2-pair UTP Cat.3,4,5 up to 100m (328ft) • 100Base-TX: 2-pair UTP Cat.5, up to 100m (328ft) • VDSL: twisted-pair telephone wires (AWG24 or better) up to 1.6km
Performance	**Full VDSL2 bandwidth up to: (Down Stream / Up Stream)** • Asymmetric Mode - 200m -> 100/55Mbps - 400m -> 90/50Mbps - 600m -> 70/40Mbps - 800m -> 60/25Mbps - 1000m -> 45/15Mbps - 1200m -> 35/10Mbps - 1400m -> 30/6Mbps - 1600m -> 25/4Mbps • Symmetric Mode - 200m -> 90/90Mbps - 400m -> 90/90Mbps - 600m -> 70/70Mbps - 800m -> 55/50Mbps - 1000m -> 40/35Mbps - 1200m -> 30/25Mbps - 1400m -> 25/20Mbps - 1600m -> 20/15Mbps
Dimension (W x D x H)	97 x 69 x 26 mm
Weight	0.4 kg
Power Requirement	5V DC 2A
Operating Temperature	-10~60 Degree C
Storage Temperature	-25~70 Degree C
Operating Humidity	10~90%, relative humidity, non-condensing
Storage Humidity	10~90%, relative humidity, non-condensing
Standard Conformance	
Regulation Compliance	FCC Part 15 Class A, CE
Standards Compliance	IEEE 802.3 10Base-T IEEE 802.3u 100Base-TX ITU-T - G.993.1 (VDSL) - G.997.1 - G.993.2 VDSL2 (Profile 17a)