VDSL2 Router

The PLANET VDSL2 Router, VC-230, is developed with two core networking technologies: Ethernet and VDSL2 (Very High Speed Digital Subscriber Line 2). Based on VDSL 2 technology, the VC-230 provides very high performance access to Internet, up to 100Mbps for both downstream and upstream data transmission. VDSL2 offers the absolute fastest data transmission speeds over existing copper telephone lines without the need for rewiring.

The VC-230 complies with ITU-T G993.2 standard and provides two modes for applications – Bridge and Router. With built-in 4-Port 10/100 Ethernet switch, it provides data delivering and receiving in local network, which gives the best solution for small enterprises and residential LAN networking.

There are two selectable operating modes of VC-230: CO and CPE, which can be adjusted by Web UI. Users can setup Point-to-Point application by connecting two VC-230, one in CO mode and another one in CPE mode, to transmit data in high speed between two networks over existing copper telephone lines.

Via the user-friendly management interface, the VC-230 can be managed easily through standard web browsers. Furthermore, the VC-230 not only provides basic router's functions such as DHCP server, Virtual Server, DMZ, QoS, and UPnP, but also provides the fully firewall functions such as Network Address Translation (NAT), IP/Port/MAC Filtering and Content Filtering. The VC-230 serves as an Internet firewall to protect your network from being accessed by unauthorized users.

KEY FEATURES

INTERNET ACCESS FEATURES

- **Shared Internet Access**: All users on the LAN can access the Internet through the VC-230 using only one single external IP Address. The local (invalid) IP Addresses are hidden from external sources. This process is called NAT (Network Address Translation).

- **Built-in VDSL2 Modem**: The VC-230 provides VDSL2 modem and supports all common VDSL2 connections.

- **Multiple WAN Connection**: On the Internet (WAN port) connection, the VC-230 supports Dynamic IP Address (IP Address is allocated on connection), Fixed IP Address, PPPoE, PPTP and L2TP.

- **CO and CPE Support**: The VC-230 provides the Peer-to-Peer connection. Users can select the CO and CPE mode manually.

- **Bridge and Router Application**: The VC-230 supports two application modes: bridging and routing modes. Currently, the default mode is routing mode. Note: routing mode and bridging mode cannot be used simultaneously.

ADVANCED INTERNET FUNCTIONS

- **Virtual Servers**: This feature allows Internet users to access Internet servers on your LAN. The setup is quick and easy.

- **Firewall**: The VC-230 supports simple firewall with NAT technology.

- **Universal Plug and Play (UPnP)**: UPnP allows automatic discovery and configuration of the Broadband Router. UPnP is supported by Windows ME, XP, or later.

- **Selectable VDSL2 Profiles**: The VC-230 supports common VDSL2 profiles (30a, 17a, 12a, 12b, 8a, 8b, 8c, 8d) for users choice. Users can select different VDSL2 profiles based on their needs.

- **User Friendly Interface**: The VC-230 can be managed and controlled through Web UI.

- **DMZ Support**: The VC-230 can translate public IP addresses to private IP address to allow unrestricted 2-way communication with the servers or individual users on the Internet. It provides the most flexibility to run programs smoothly for programs might be restricted in NAT environment.

- **RIP1/2 Routing**: It supports RIPv1/2 routing protocol for routing capability.

- **VPN Pass-through Support**: PCs with VPN (Virtual Private Networking) software are transparently supported - no configuration is required.

LAN FEATURES

- **4-Port Switch**: The VC-230 incorporates a 4-Port 10/100Base-TX switching hub, making it easy to create or extend your LAN.

- **DHCP Server Support**: Dynamic Host Configuration Protocol provides a dynamic IP address to PCs and other devices upon request. The VC-230 can act as a DHCP Server for devices on your local LAN.
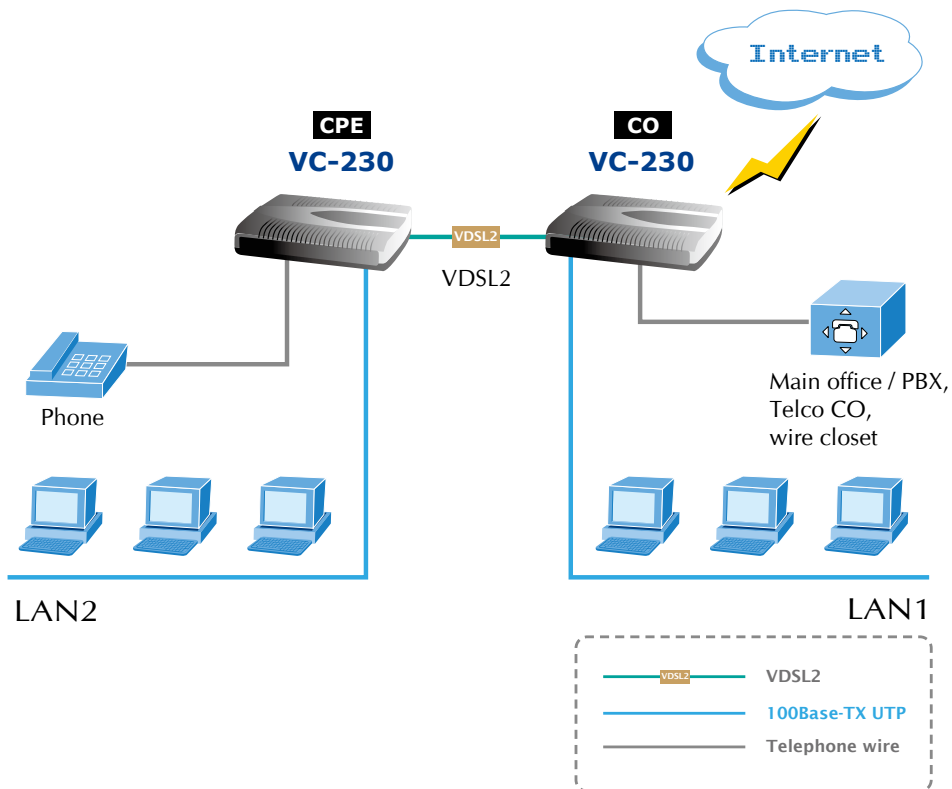
APPLICATIONS

Peer-to-Peer Network Connection

A pair of the VC-230, each represents the CO and the CPE device respectively, is good for Ethernet distance extension over existing telephone wires. With just one pair of AWG-24 copper wire, you can easily connect two Ethernet networks together with the data rate of maximum 100/100Mbps. Telephone service can still be used while the modems are in operation.

Very High-Speed Internet Connection with Wired

The VC-230 is the perfect solution to offer a small group of PCs for Very high-speed broadband Internet connection. It allows multiple users to access to Internet simultaneously. Compliant with VDSL 2 standard, the VC-230 supports downstream rates up to 100 Mbps and upstream rates up to 100 Mbps. The VC-230 also incorporates a 4-Port 10/100Base-TX switching hub to easily create or extend your LAN, and prevent the attacks from the internet.

Internet

| CPE | CO |
| VC-230 | VC-230 |

VDSL2

VDSL2

Main office / PBX,
Telco CO,
wire closet

Phone

LAN2

LAN1

VDSL2	VDSL2
	100Base-TX UTP
	Telephone wire

SPECIFICATION

Product	VDSL2 Router
Model	VC-230
Hardware	
Standard	VDSL2-DMT – Compliant with VDSL2 ITU-T G.993.2 (8a, 8b, 8c, 8d, 12a, 12b, 17a, 30a) – G.997 / G.998 Band Plan support – Supports up to 100Mbps / 100Mbps for Upstream / Downstream Complaint with IEEE802.3 / 802.3u U0 Band Support (25KHz to 276KHz) Packet Transfer Mode Ethernet in the First Mile(PTM-EFM)
Ports — 10/100Base-TX	4 x 10/100Base-TX, Auto-Negotiation, Auto MDI/MDI-X
Ports — PHONE	1 x RJ-11, and built-in splitter for POTS connection
Ports — VDSL2	1 x RJ-11
LED Indicators	PWR, DSL, LAN1-4
Button	1 x RESET button
Software	
Max. Sessions	4096
VDSL2 Functionality	CO / CPE mode selection Selectable fast and interleaved mode Selectable VDSL2 Profiles Bandwidth Limitation support
Protocol / Feature	Router and Bridge mode Static Routing and RIPv1/2 DMZ and Virtual Server 802.1D QoS SNTP DHCP Server / Client IGMP Proxy and DNS Proxy UPnP and DDNS SNMP v1/v2c * TR-069 *
VPN	VPN Pass-through
Security	Built-in NAT Firewall MAC / IP/ Port Filtering Content Filtering SPI Firewall support Password protection for system management
Management	Web-Based configuration
Environment Specification	
Dimension (W x D x H)	186 x 143 x 35 mm
Power	12V DC, 1A
Temperature / Humidity	Operating: 0~50 Degree C, 5%~ 90% (non-condensing), Storage: -20~70 Degree C, 0~95% (non-condensing)
Emission	CE, FCC

* Feature Enhance by Future FW upgradeable.

ORDERING INFORMATION

VC-230	VDSL2 Router (4 x RJ45, 1 x VDSL2 / RJ11, 1 x Phone)

RELATED PRODUCT

VC-230N	802.11n Wireless VDSL2 Router (4 x RJ45, 1 x VDSL2 / RJ11, 1 x Phone)