



The PLANET 802.11n Wireless VDSL2 Router, VC-230N, applies 2T2R MIMO antenna technology and provides office and residential users the ideal solution for sharing a high-speed VDSL2 broadband connection and four-10/100Mbps Fast Ethernet backbone. The VC-230N is developed with three core networking technologies: IEEE 802.11b/g/n, Ethernet and VDSL2 (Very High Speed Digital Subscriber Line 2). Via VDSL 2 technology, the VC-230N offers very high performance access to the Internet. With speeds of up to **100Mbps** for both downstream and upstream data transmission, VDSL2 offers the fastest data transmission speed available over existing copper telephone lines.

CO/CPE
Mode

The VC-230N complies with ITU-T G993.2 standard and provides two modes for network applications – **Bridge** and **Router**. With built-in IEEE 802.11b/g and 802.11n wireless network capability, the VC-230N allows any computer and wireless-enabled network device to connect to it without additional cabling. 802.11n Draft 2.0 wireless capability brings users data transmission rates up to **300Mbps**. The radio coverage is also doubled to offer high speed wireless connection over a larger area.

VDSL2
30a

For secure wireless communication, the VC-230N supports the most up-to-date encryption, WEP, WPA-PSK and WPA2-PSK. Moreover, the VC-230N supports WPS configuration with PBC/PIN type to enable users to easily connect to a secured wireless network.

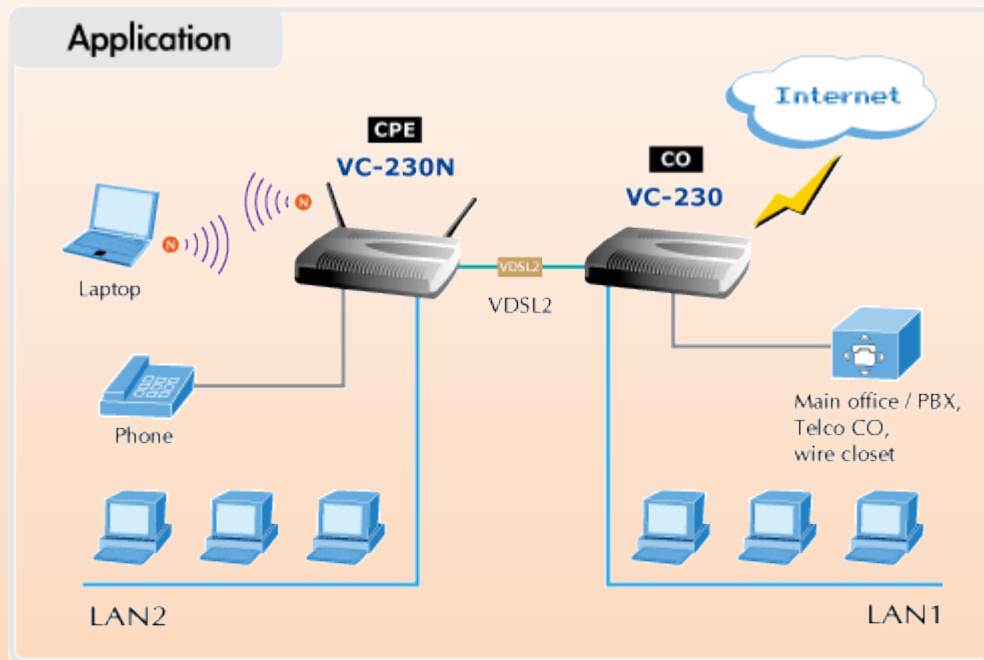
WPS

There are two selectable VDSL2 operating modes of VC-230N: **CO** and **CPE**, which can be adjusted by Web UI. Users can set-up **Point-to-Point** application by connecting two VC-230N, in which one in CO mode and another one in CPE mode, to transmit data in high speed between two networks over existing copper telephone lines.

802.11n

WISP

QoS



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



VC230N



VC230



Key Features

Internet Access Features

• Shared Internet Access

All users on the LAN can access the Internet through the VC-230N 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-230N provides VDSL2 modem and supports all common VDSL2 connections.

• Multiple WAN Connection

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

• CO and CPE Support

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

• Bridge and Router Application

The VC-230N 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.

Wireless Features

• Support IEEE 802.11b, g and 802.11n Wireless Stations

The 802.11n standard provides backward compatibility with the 802.11b and 802.11g standard, so 802.11b, 802.11g, and 802.11n Draft 2.0 can be used simultaneously. IEEE 802.11n (Draft 2.0) wireless technology is capable of up to 300Mbps data rate.

• Two External Antennas with MIMO Technology

The VC-230N provides farther coverage, less dead spaces and higher throughput with 2T2R MIMO technology.

• WPS Push Button Control

The VC-230N supports WPS (Wi-Fi Protected Set-up) for users to easily connect to wireless network without configuring the security.

• WEP Support

WEP (Wired Equivalent Privacy) is included. Key sizes of 64 Bit and 128 Bit are supported.

• WPA-PSK Support

WPA-PSK_TKIP and WAP-PSK_AES encryption are supported.

• Wireless MAC Access Control

The Wireless Access Control feature can check the MAC address (hardware address) of Wireless stations to ensure that only trusted Wireless Stations can access your LAN.

Advanced Internet Functions

• Virtual Servers

This feature allows Internet users to access Internet servers on your LAN. The set-up is quick and easy.

• Firewall

The VC-230N 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-230N 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-230N can be managed and controlled through Web UI.

• DMZ Support

The VC-230N can translate public IP addresses to private IP address to allow unlimited 2-Way communication with the servers or individual users on the Internet. It provides the most flexibility to run programs smoothly for programs that 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.

Ordering Information

VC-230N	802.11n Wireless VDSL2 Router (4 x RJ45, 1 x VDSL2 / RJ11, 1 x Phone)
VC230	VDSL2 Router (4 x RJ45, 1 x VDSL2 / RJ11, 1 x Phone)

VC230 Series Specifications



VC230N



VC230



Model	VC-230N
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 –Up to 100Mbps / 100Mbps for Upstream / Downstream Compliant with IEEE 802.3 / 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 Wireless 1 x 802.11b/g/n Access Point, 2 x antennas detachable PHONE 1 x RJ-11, and built-in splitter for POTS connection VDSL2 1 x RJ-11
LED Indicators	PWR, WPS, WLAN, Security, DSL, LAN1-4
Button	1 x RESET button
Wireless Standard	IEEE 802.11b, g and 802.11n Draft 2.0
Frequency	2.4 to 2.4835GHz (Industrial Scientific Medical Band)
Channels	Maximum 14 Channels, depending on regulatory authorities
Antenna Connector	2 x 2dBi detachable Antenna
Wireless Data Encryption	64 bit / 128 bit WEP, WPA-PSK, WPA, WPA2, 802.1x encryption, and WPS PBC
Wireless Data Rate	IEEE 802.11b: 1/2/5.5/11Mbps IEEE 802.11g: 6/9/12/18/24/36/48/54Mbps IEEE 802.11n: 14/29/43/58/87/116/130/144Mbps in 20MHz, 30/60/90/120/180/240/270/300Mbps in 40MHz
Software	
Max. Sessions	4096
VDSL2 Functionality	CO / CPE mode select Selectable fast and interleaved mode Selectable VDSL2 Profiles Bandwidth Limitation support
Protocol / Feature	Router, Bridge and WISP mode WDS and WPS 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	FCC, CE