PLANET
Networking & Communication

300Mbps Wireless VDSL2 Bridge Router

VDR-301N

VDSL2 30a | ADSL 2+ | 300 Mbps | IPv6/IPv4 Tunneling | TR-069 Ready | Multi-SSID | QoS

Presentation Outlines

Making Connection with Ease

VDSL2 Introduction

VDSL2 Introduction

◆ **What is EoVDSL2 (Ethernet over VDSL2)?**

- ✓ **VDSL2 (Very-high-data-rate Digital Subscriber Line 2)**

- ✓ **VDSL2 is the newest and more advanced standard of DSL**

- ✓ **VDSL2 has been standardized as ITU G.993.2**

- ✓ **VDSL2 (ITU G.993.2) is an enhancement to VDSL (G.993.1)**

- ✓ **DMT (Discrete Multi-Tone) line coding**

VDSL2 Introduction

◆ DSL Standard

Family	ITU	Name	Ratified	Maximum Speed Capabilities
ADSL	G.992.1	G.dmt	1999	8Mbps down 1Mbps up
ADSL2	G.992.3	G.dmt.bis	2002	12Mb/s down 1Mbps up
ADSL2plus	G.992.5	ADSL2plus	2003	24Mbps down 1Mbps up
ADSL2-RE	G.992.3	Reach Extended	2003	8Mbps down 1Mbps up
SHDSL (updated 2003)	G.991.2	G.SHDSL	2003	5.6Mbps up/down
VDSL	G.993.1	Very-high-data-rate DSL	2004	55Mbps down 15Mbps up
VDSL2 -12 MHz Long reach	G.993.2	Very-high-data-rate DSL 2	2005	55Mbps down 30Mbps up
VDSL2 - 30 MHz Short reach	G.993.2	Very-high-data-rate DSL 2	2006	100Mbps up/down

Product Overview

◆ **PLANET VDSL2 CPE**

- G.vector
- ADSL2/2+
- Multiple SSIDs

Wireless

Wired

VDR-300NU

VDR-301N

VC-231

VC-234

VDSL2 Bridge

VDSL2 Router

Product Overview

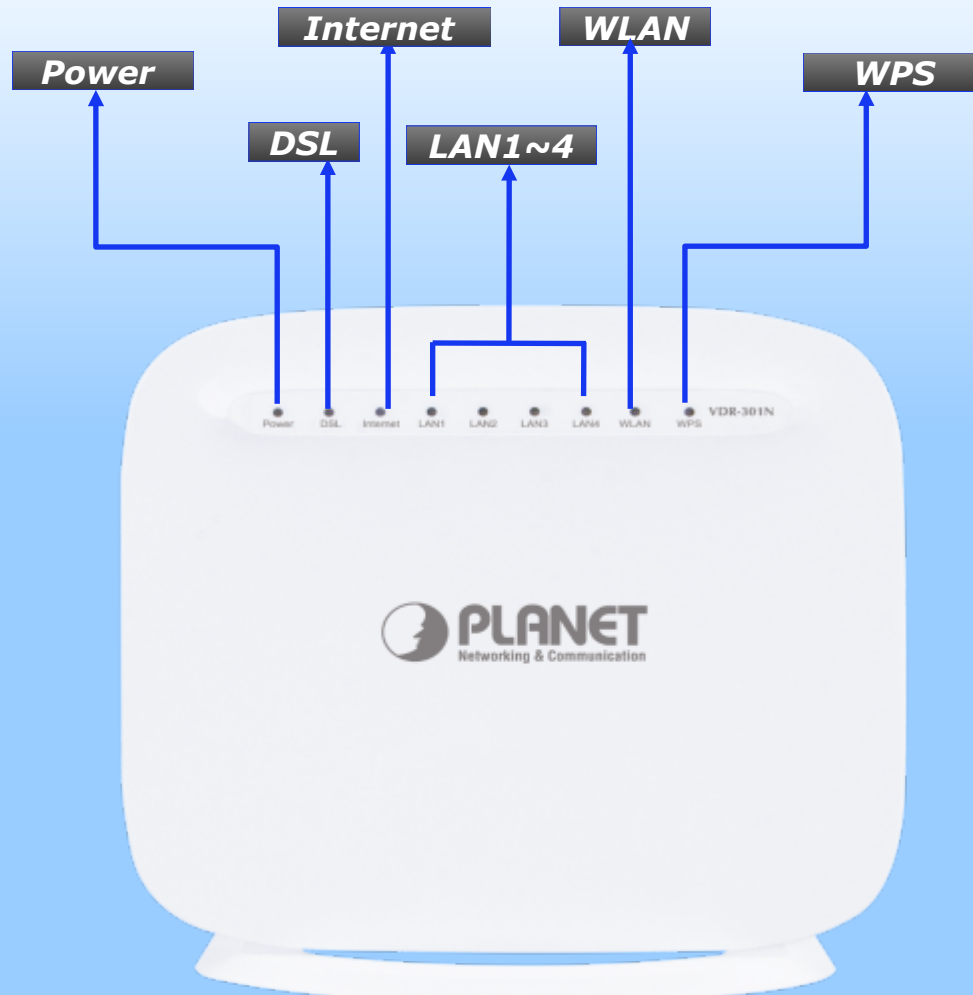◆ **Dimensions: 155 x 60 x 152 mm** (W x D x H)
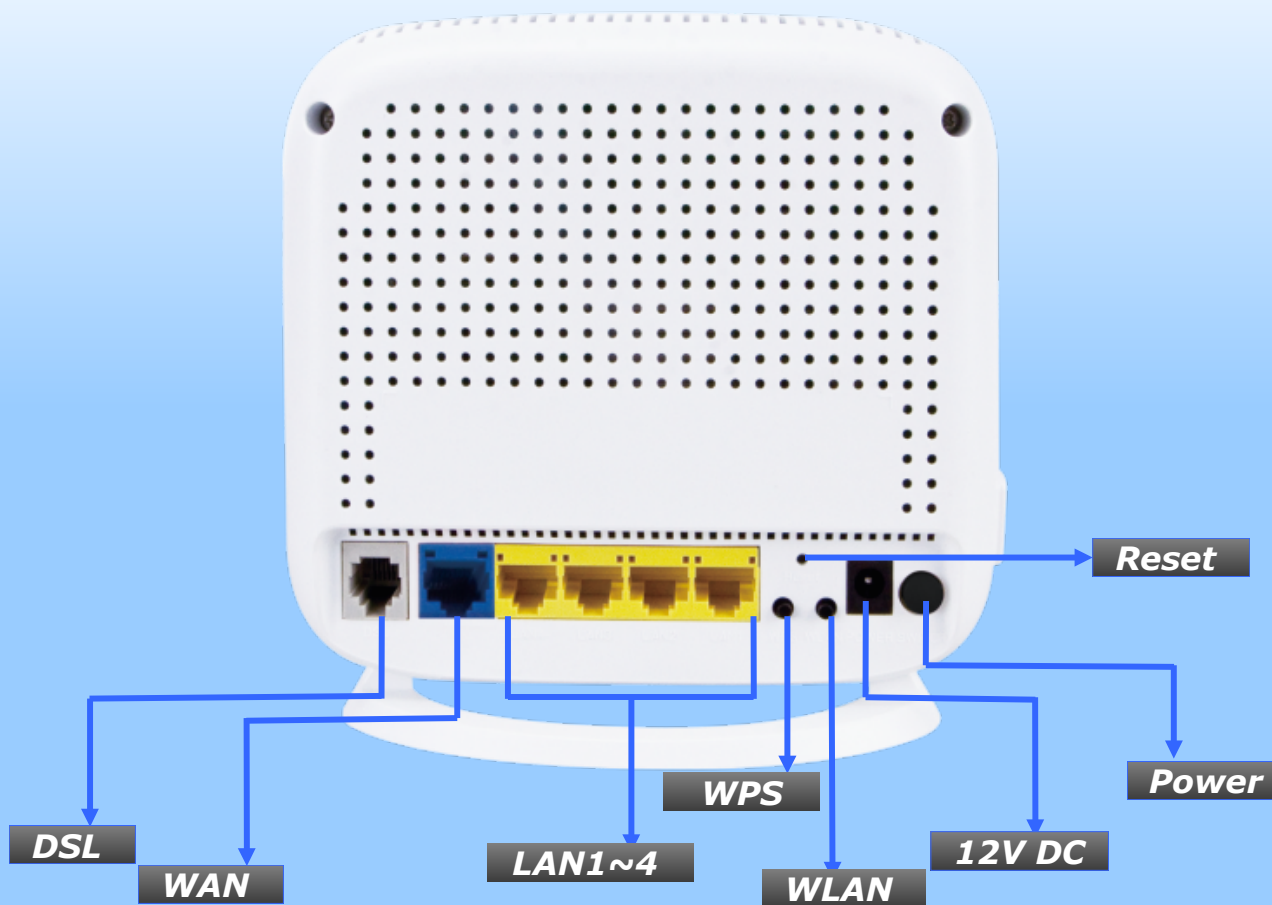◆ **Power: 12V DC, 0.5A**

Front

Rear

Product Overview

◆ **VDR-301N Front Side – LED Indication**

Product Overview

◆ **VDR-301N Rear Side – Port Indication**
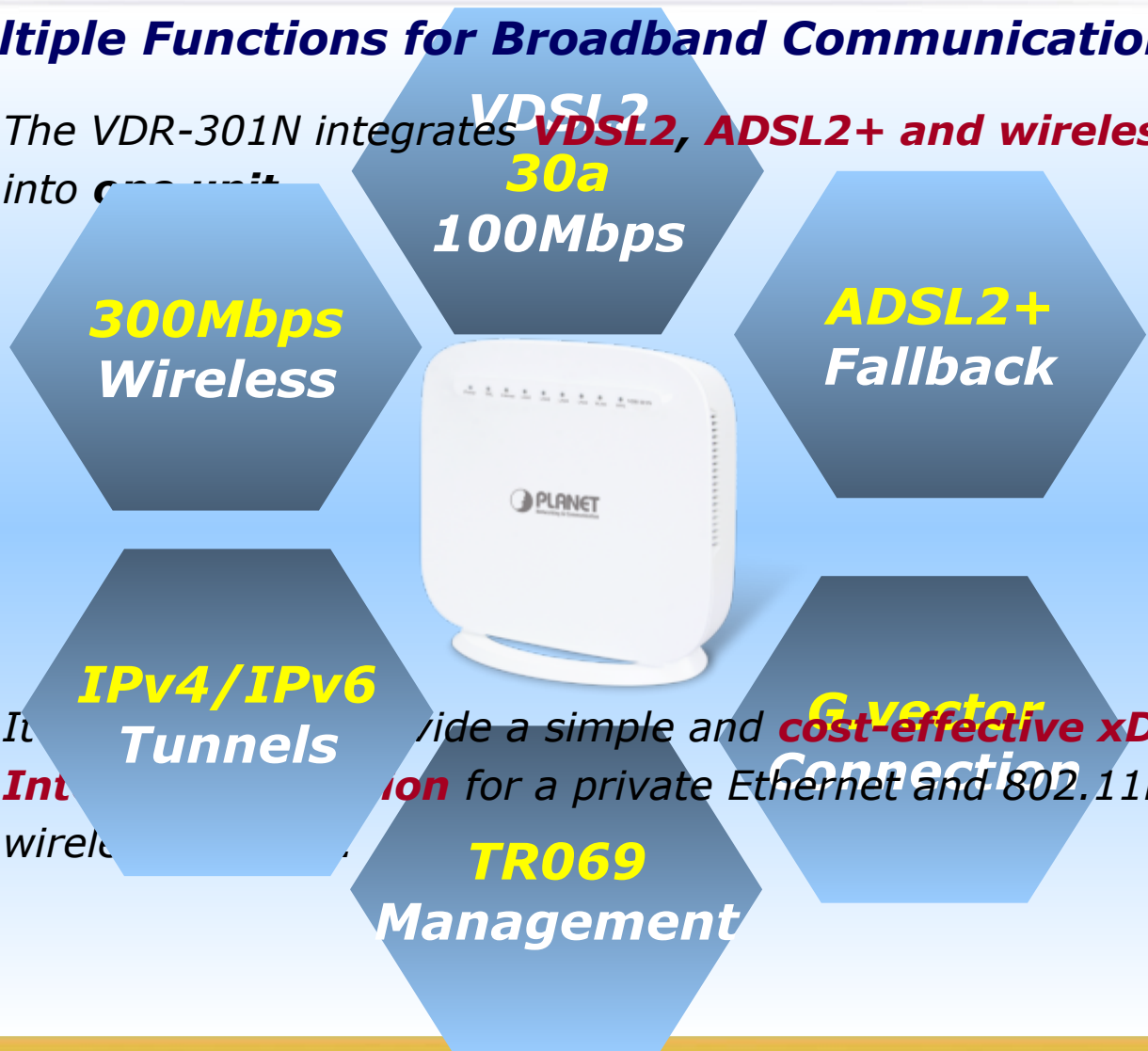

Reset

Power

WPS

DSL

WAN

LAN1~4

WLAN

12V DC

Product Benefits

◆ **Multiple Functions for Broadband Communications**

    ✓ *The VDR-301N integrates VDSL2, ADSL2+ and wireless LAN into one unit.*

VDSL2 30a
100Mbps

300Mbps Wireless

ADSL2+ Fallback

    ✓ *It can provide a simple and cost-effective xDSL Internet Connection for a private Ethernet and 802.11b/g/n wireless network.*

IPv4/IPv6 Tunnels

G.vector Connection

TR069 Management

Product Features

Product Features – VDSL2 30a 100Mbps

◆ **High Performance Ethernet Over VDSL**

  ✓ *The VDR-301N provides very high performance access to Internet, up to **100Mbps** for both downstream and upstream data transmission.*

◆ **ADSL2+ Fallback**

  ✓ *The VDR-301N can support transmission rates up to **24Mbps downstream** and **3.5Mbps upstream** with ADSL 2+ technology.*

Product Features

♦ **G.993.5 Vectoring:**

✓ **G.993.5** (**G.vector**) support for significant reduction of crosstalk levels and improvement of VDSL2 line performance.

✓ The VDR-301N works in conjunction with vectoring-enabled DSLAMs to remove crosstalk interference and improve maximum line bandwidth across the existing copper infrastructure.

Product Features

◆ **Multiple Network Technologies for Greater Access**

   ✓ **Internet Connection Types:**

      ● **Bridge**

      ● **PPPoE**

      ● **PPPoA**

      ● **Dynamic IP**

      ● **Static IP**

      ● **1483 Routed**

◆ **IPv6/IPv4 Dual Stack Capability**

   ✓ The VDR-301N is the best choice for ISPs to build the **IPv6** FTTx edge service and for SMBs to connect with the IPv6 network.

Product Features

◆ **Advanced Networking Function for Specific Application**

✓ Supports **Multiple Bandwidth Control (QoS)** based on different local IP addresses and MAC addresses.

✓ Supports **NTP**, **Port Trigger**, **Virtual Server**, **Port Mapping** and **DMZ** for various networking applications.

✓ Supports **Static Route** and **UPnP**.

◆ **Robust TR-069 Remote Management**

✓ Supports **TR-069** (WAN Management Protocol) standard that allows an Auto-Configuration Server (ACS) to perform auto-configuration, provision, collection, and diagnostics to this device remotely.

Product Features

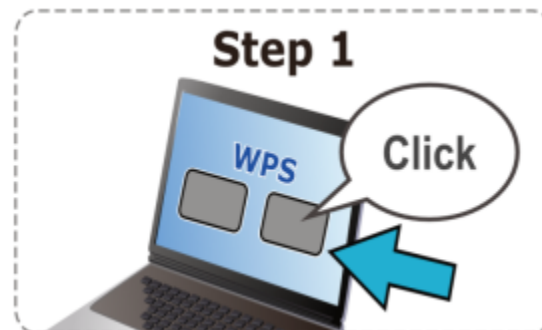◆ **Secure Wireless and Wired Network Connection**

✓ Supports **Wi-Fi Protected Setup** (**WPS**)

✓ Advanced security:

■ **64-/128-bit WEP**

■ **WPA/WPA2**

■ **WPA-PSK/WPA2-PSK(TKIP/AES encryption)**

■ **802.1x**

Product Features - WPS Easy Setup

WPS (Wi-Fi Protected Setup) *– Quick and Easy Wireless Connection*
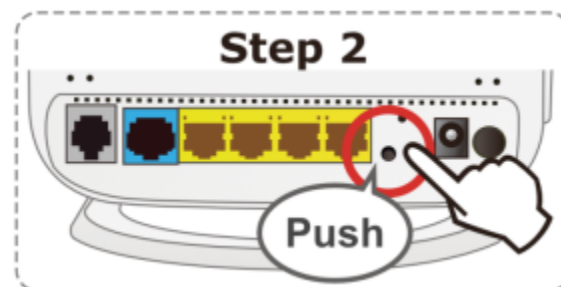
◆ *Step 1*

  ✓ **In the Wireless Client, click the WPS physical Hardware Button or Software Button from the adapter utility**

◆ *Step 2*

  ✓ **In the VDR-301N, push the WPS Hardware Button from the rear panel within 2 minutes**

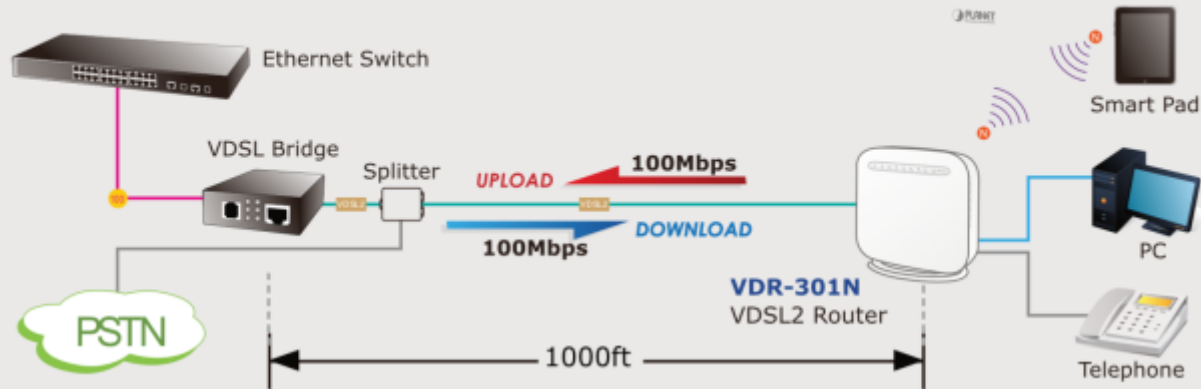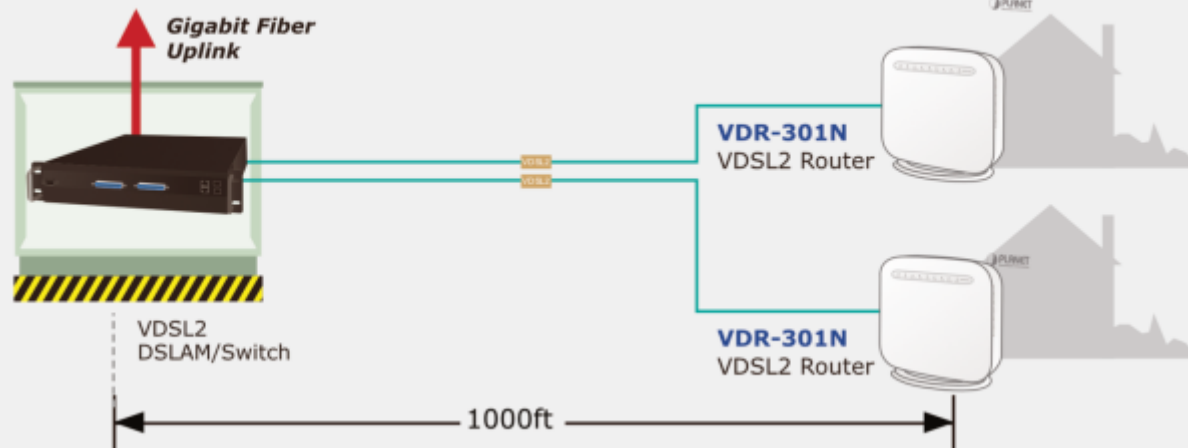◆ *Step 3*

  ✓ **Wait for the connection being established**

Applications

Product Comparison

Model		
Image		
	LAN: 4 x 10/	

Appendix - Sales Target

◆ **Target Markets**

    ✓ **ISPs, telecoms, system integrators**

    ✓ **Media stream service providers**

◆ **Profitable Products**

    ✓ **Other VDSL2 products offered include:**

        • VC-820M, VDL-2420M, XDL-2420R

        • VC-231, VC-234

Appendix – Related Products

◆ **CO/CPE Equipment**

VC-231		**Ethernet over VDSL2 Converter (Profile 30a)**
VC-234		**4-Port Ethernet over VDSL2 Bridge (Profile 30a)**
VC-820M		**8-Port VDSL2 + 2-Port Gigabit TP/SFP Managed Switch**
VDL-2420M		**24-Port VDSL2 IP DSLAM + 2-Port Gigabit TP/SFP Combo**
XDL-2420R		**24-Port VDSL2 / ADSL2+ with 2-Port Gigabit TP/SFP Combo IP DSLAM**
IDL-2402 **IDL-4802**		**24-Port ADSL2/2+ IP DSLAM** **48-Port ADSL2/2+ IP DSLAM**

Activating IP Power