PLANET
Networking & Communication

# 300Mbps *Dual Band* 802.11a/b/g/n Wireless Gigabit Router

**WDRT-731U**

Dual Band
2.4G  5G

300 Mbps

Gigabit

USB 2.0

IPTV

High Gain

# Presentation Outline

◆ **Product Position**

◆ **Product Overview**

◆ **Product Benefits**

◆ **Product Features**

◆ **Applications**

◆ **Web UI**

◆ **Appendix**

# Product Position

◆ **PLANET Indoor Wireless Router Series**

**New**

**11N Dual Band Wireless Gigabit Router**
- 11a/b/g/n, 2T2R
- 2.4G/5GHz
- 300+300Mbps

**WDRT-730**

**11N Dual Band Wireless Gigabit Router**
- 11a/b/g/n, 2T2R
- 2.4G/5GHz
- USB / TPTV Port

**WDRT-731U**

**11N Wireless Router**
- 5dBi fix antenna
- Gigabit LAN

**WNRT-632**

**11N Wireless Repeater / Travel Router**
- Multiple Mode
- Wall Plug

**WNAP-1260**

**11N Wireless Router**
- 5dBi fix antenna

**WNRT-627**

**11N Wireless VPN Router**
- IPSec / PPTP VPN Gateway
- 1 WAN / 2 WAN

**VRT-402N / VRT-420N**

**11N Wireless 3G Router**
- 3G USB
- 5dBi detachable antenna

**WNRT-617G**

**Portable 11N Router**
- 5hr battery

**WNRT-300**

**11N Wireless Router**
- 5dBi fix antenna

**WNRT-617**

**Portable 3G 11N Router**
- 3G USB
- 5hr battery

**WNRT-300G**

**Portable 3G 11N Router**
- 3G WCDMA modem built-in
- 5hr battery

**WNRT-320GS**

**300+300 Mbps**
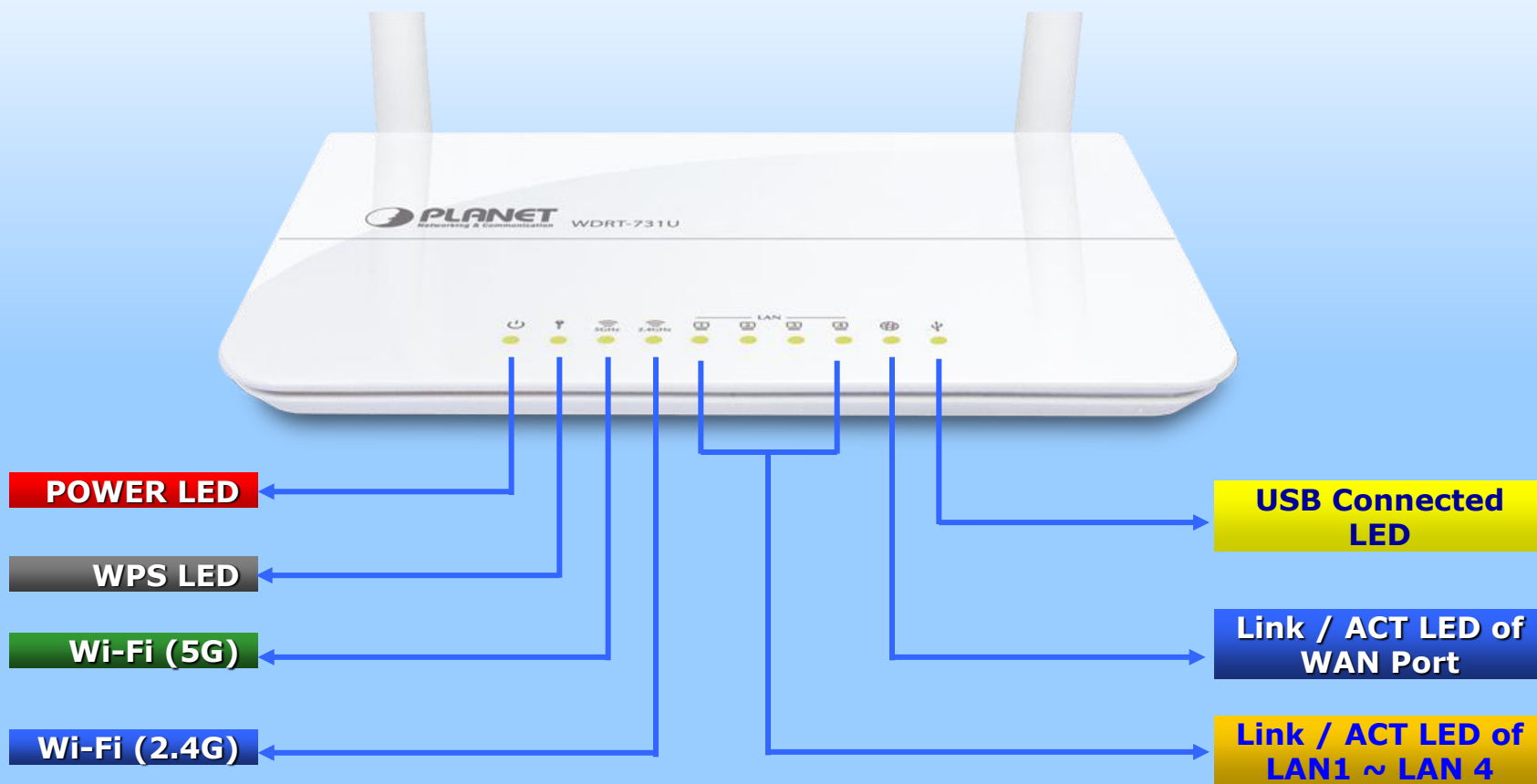
**300Mbps**

**150Mbps**

**WiFi Router**

**3G Router**

# Product Overview

◆ Dimensions: 171.6 x 111.2 x 25.5 mm (W x D x H)

◆ Weight: 250g

◆ Power: 12V DC, 1A

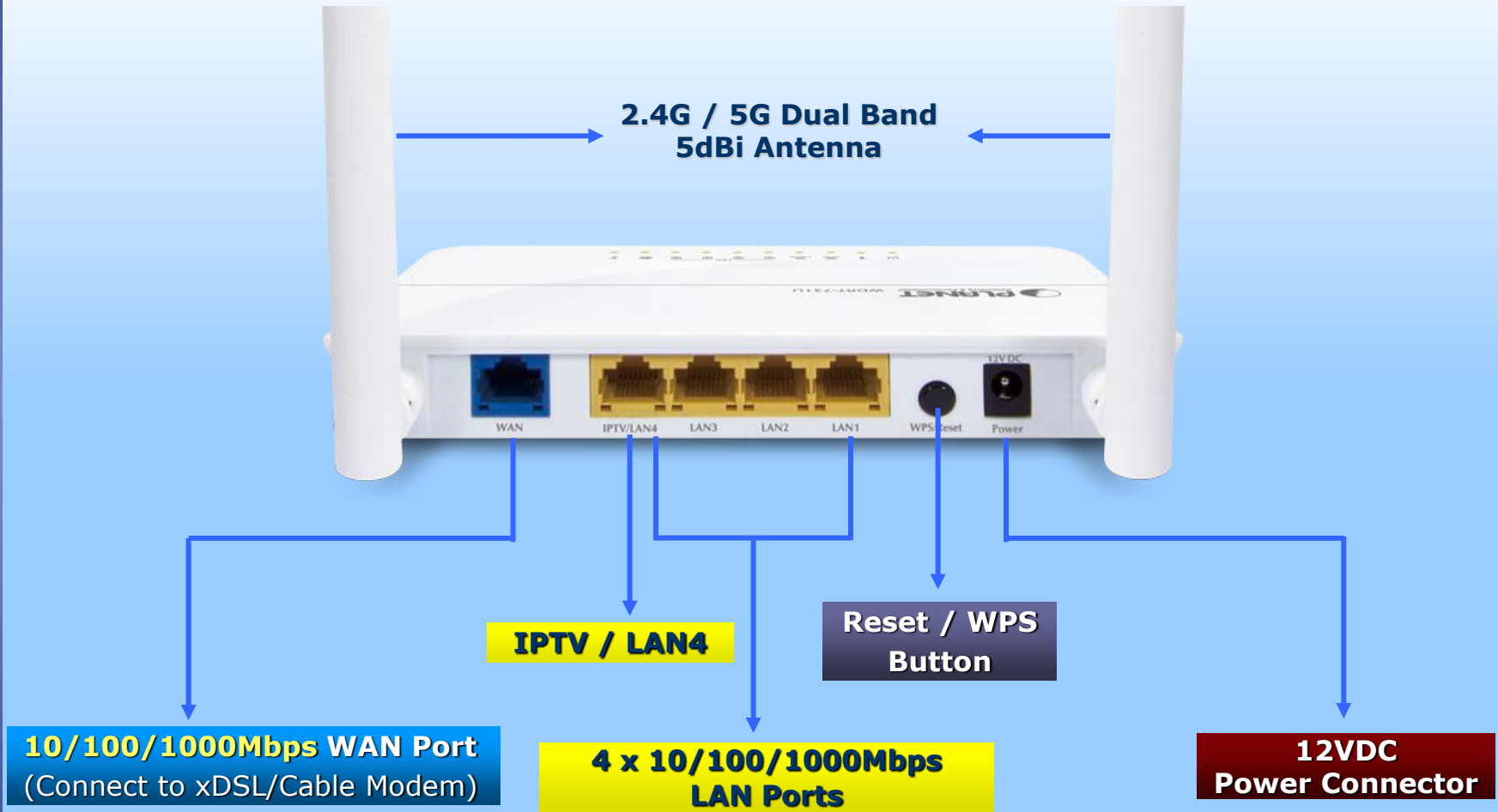# Product Overview

◆ **TOP Side – LED Indication**



**POWER LED**

**WPS LED**

**Wi-Fi (5G)**

**Wi-Fi (2.4G)**

**USB Connected LED**

**Link / ACT LED of WAN Port**

**Link / ACT LED of LAN1 ~ LAN 4**

# Product Overview

◆ **Rear Panel - Interfaces**

**2.4G / 5G Dual Band 5dBi Antenna**

**IPTV / LAN4**

**Reset / WPS Button**

**10/100/1000Mbps WAN Port** (Connect to xDSL/Cable Modem)

**4 x 10/100/1000Mbps LAN Ports**

**12VDC Power Connector**

# Product Overview

◆ **Right Side – USB Interface**

**USB HDD**

**USB Dongle**

**USB Card Reader**

**USB Printer**

**USB Equipments**

# Product Benefits

◆ **2.4G & 5G Simultaneous Dual Band Wireless Connectivity**

  ✓ **To avoid the wireless interference between various of 2.4GHz Wireless applications**, WDRT-731U provides users the radio frequency of 5GHz for watching HD videos or playing online games additionally.

◆ **11n Highest-Speed Wireless Connectivity**

  ✓ The WDRT-731U supports **IEEE 802.11a/b/g/n dual band** standard with 2T2R antenna technology; therefore it can provide the wireless speed up to **300+300Mbps** which is 12 times fast than traditional 11g Access Point.

◆ **Gigabit Ethernet Connectivity**

  ✓ Built-in **10/100/1000Mbps** Gigabit Ethernet connection ports support cable length dynamically and link down per port power saving.

◆ **Easy Setup for Multiple Wireless Modes**

  ✓ The WDRT-731U supports multiple wireless modes including **AP**, **Wireless Bridge** for different network applications.

# Product Benefits – *2.4G/5GHz Dual Band*

The Internet Applications

HD Video/
Audio Stream

5GHz
*a* / *n*

2.4GHz
*b* / *g* / *n*

Web

**Low Interference**
HD Video Streaming &
Conference

**High Compatibility**
Web & File Sharing

# Product Benefits – *5GHz Band*

◆ **5GHz Wireless Connection**

✓ More free channels, **less interference**, **better connections**

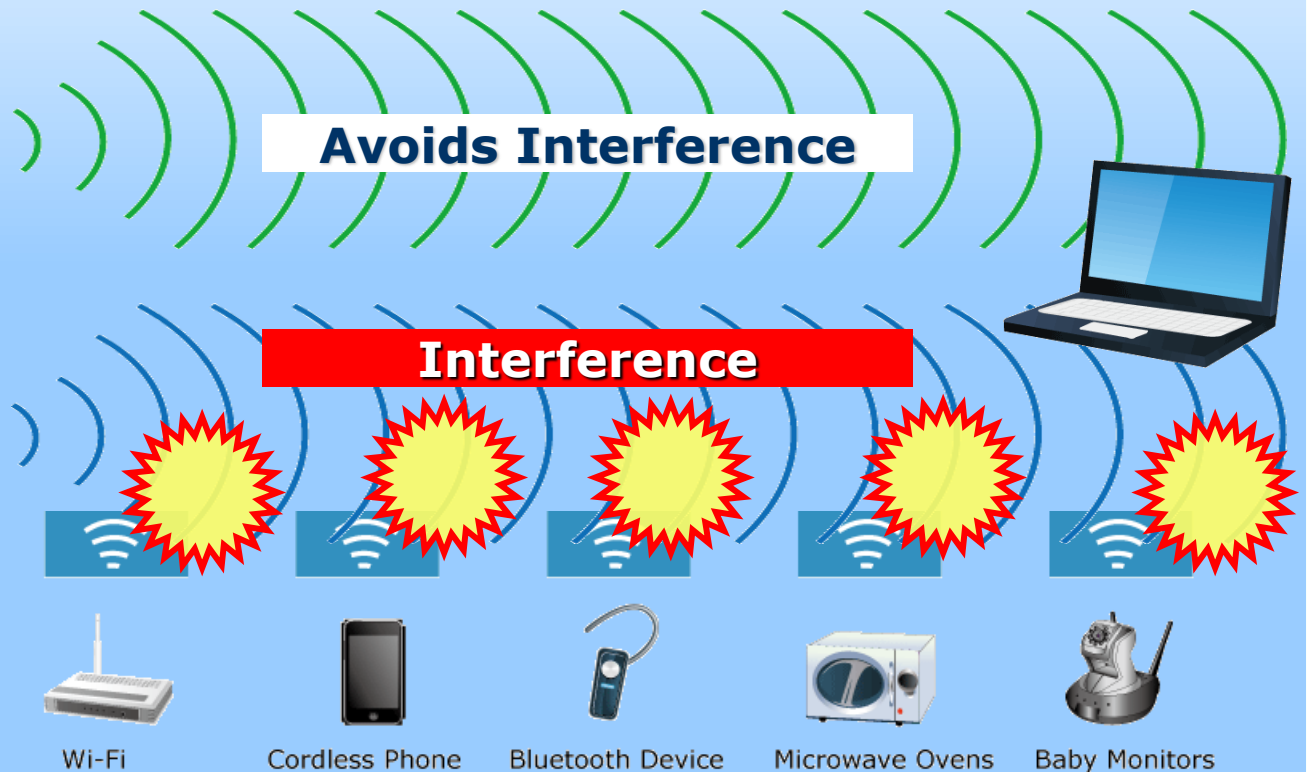✓ Up to 24 non-overlapping channels (will vary based on the regulation in different regions)
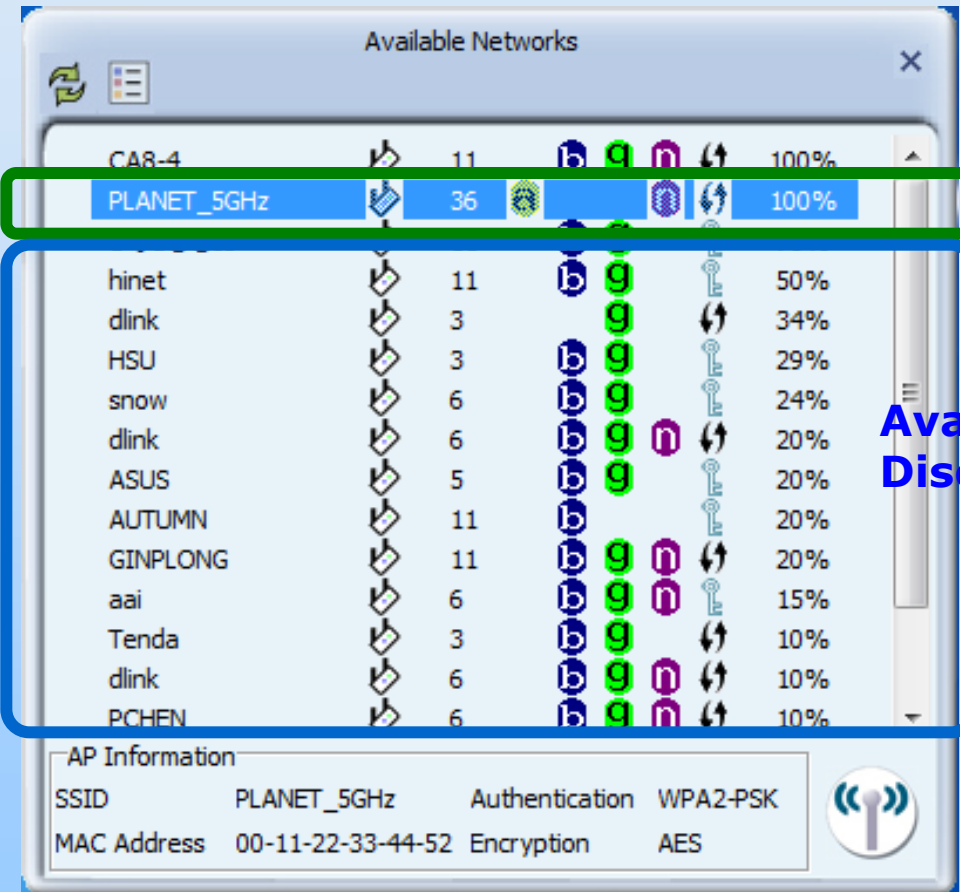
**5GHz**
More non-overlapping channels

**Avoids Interference**

**Interference**

**2.4GHz**
Only **3**
non-overlapping channels

= Wireless Interference

Wi-Fi        Cordless Phone        Bluetooth Device        Microwave Ovens        Baby Monitors

# Product Benefits – *5GHz Band*

◆ Real Wireless Signal scan …



**5GHz** Wi-Fi Signal

**2.4GHz** Wi-Fi Signal

**Available Wireless Discovery…**

And just Wi-Fi, not include wireless mouse, bluetooth, Cordless Phone..

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| CA8-4 | | 11 | b g n | | 100% |
| PLANET_5GHz | | 36 | | | 100% |
| hinet | | 11 | b g | | 50% |
| dlink | | 3 | g | | 34% |
| HSU | | 3 | b g | | 29% |
| snow | | 6 | b g | | 24% |
| dlink | | 6 | b g n | | 20% |
| ASUS | | 5 | b g | | 20% |
| AUTUMN | | 11 | b | | 20% |
| GINPLONG | | 11 | b g n | | 20% |
| aai | | 6 | b g n | | 15% |
| Tenda | | 3 | b g | | 10% |
| dlink | | 6 | b g n | | 10% |
| PCHEN | | 6 | b g n | | 10% |

AP Information

| SSID | PLANET_5GHz | Authentication | WPA2-PSK |
|---|---|---|---|
| MAC Address | 00-11-22-33-44-52 | Encryption | AES |

# Product Features – *Gigabit LAN*

◆ **Gigabit Wired vs. 300+300Mbps Wireless Connectivity**
   ✓ **– Full Speed** Data Transmission



◆ **Fast Ethernet Wired vs. 300+300Mbps Wireless Connectivity**
   ✓ **-** LAN Speed becomes Bottleneck
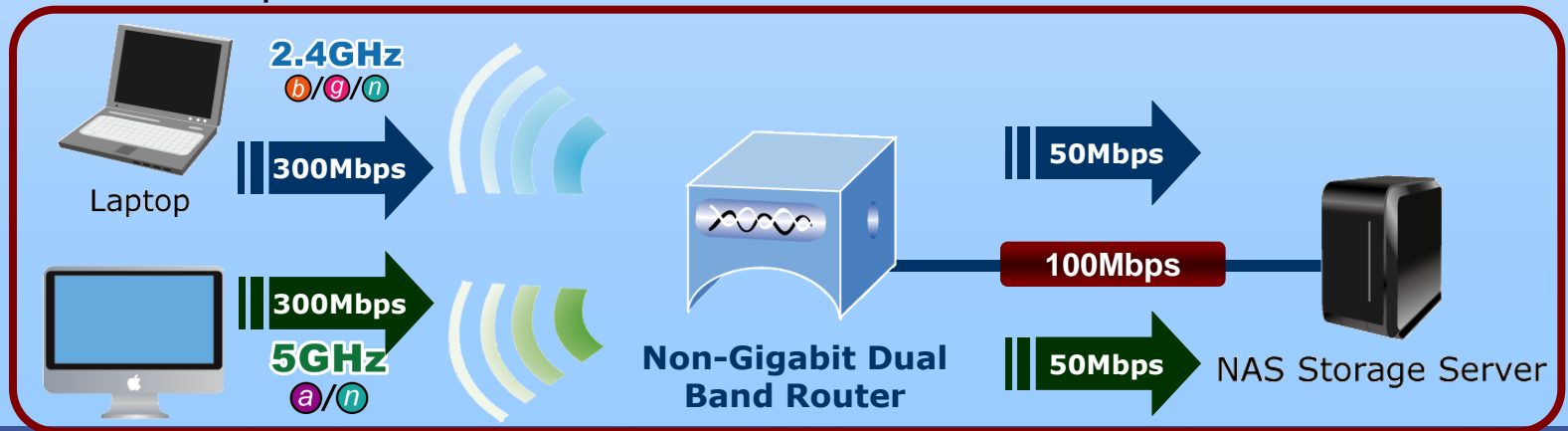
# Product Features – *USB*

◆ **More Flexible File Sharing over USB port**

✓ Built-in with one USB 2.0 port which can connected to:
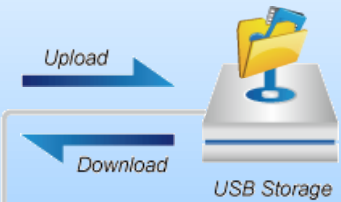
**USB Printer**

**USB Storage Device**

✓ Detecting the USB printer or storage automatically

✓ Wired or wireless clients can share printer or mass storage through the WDRT-731U without complicated network configuration

# Product Features – *USB*

**WDRT-731U**
**- USB File Server**

Upload

Download

USB Storage

Easy to share **Storage** / **Printer** by **USB** **Anywhere**

**WDRT-731U**
**- USB Printer Server**

Printout

# Product Features – *IPTV Port*
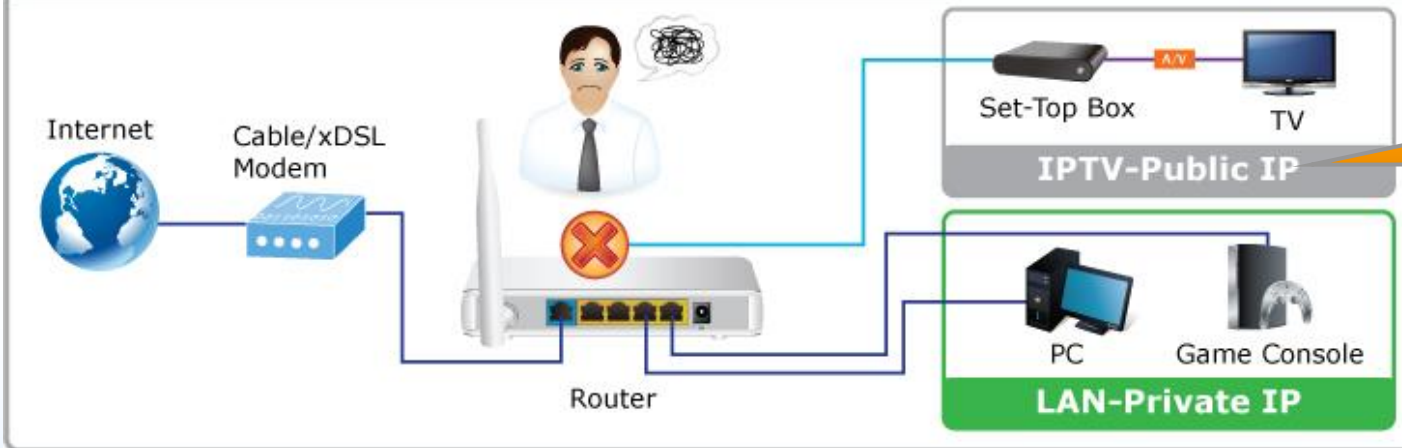
◆ **IPTV Pass-through for Video On Demand**

    ✓ The WDRT-731U provides an **IPTV-specific port** which enables the IPTV Set-Top-Box (STB) connection directly by passing through the LAN port.
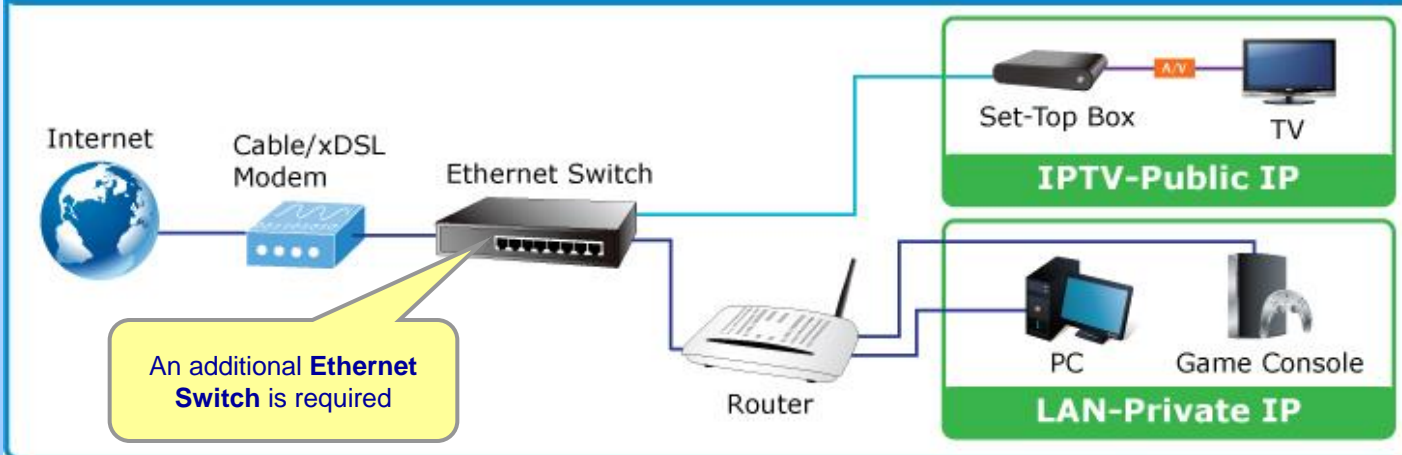


**Simultaneous** Watching HD video & Surfing the Internet

# Product Features – *IPTV Port*



**Common Router Connection without IPTV Pass-though**

Internet
Cable/xDSL Modem
Router

Set-Top Box
TV
**IPTV-Public IP**

PC
Game Console
**LAN-Private IP**

**Public IP Address** required

**Common IPTV Connection**

Internet
Cable/xDSL Modem
Ethernet Switch
Router

Set-Top Box
TV
**IPTV-Public IP**

PC
Game Console
**LAN-Private IP**

An additional **Ethernet Switch** is required

# Product Features – *IPTV Port*

◆ **WDRT-731U IPTV Port**

✓ Special Designed **IPTV Port** to connect to IP Set-Top BOX for IPTV application.



WDRT-731U IPTV Connection with IPTV Pass-though
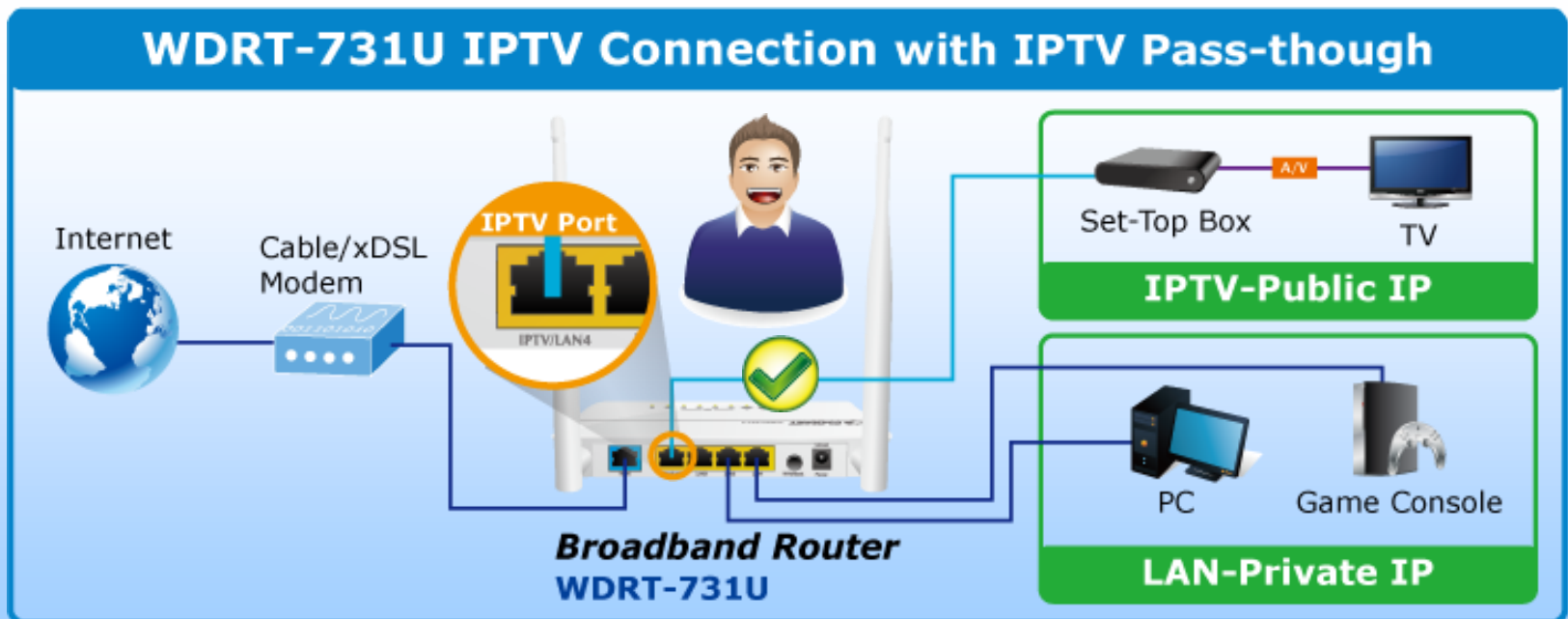
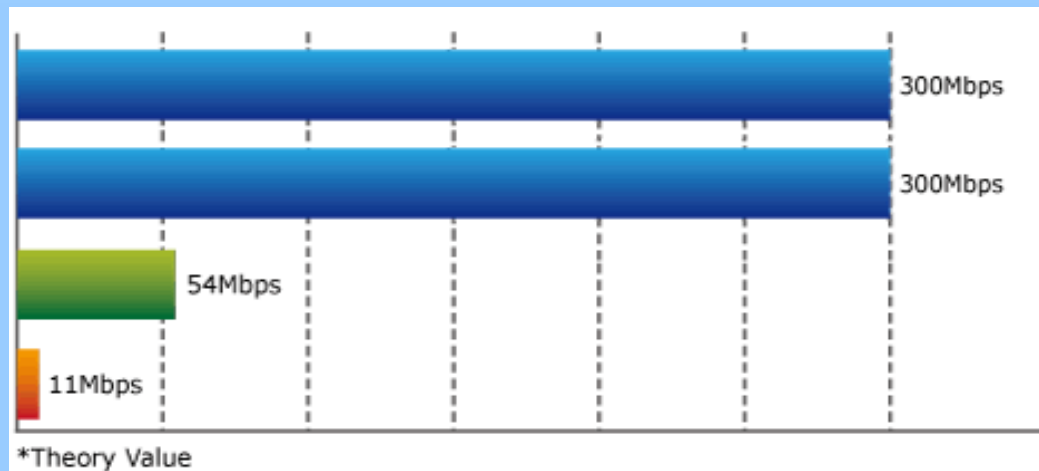# Product Features

◆ **IEEE Compliant Wireless LAN & Wired LAN**

✓ Compliant with **IEEE 802.11a/b/g/n** dual-band (2.4G&5G) wireless technology capable up to **300+300Mbps** data rate

✓ Equipped with all Gigabit RJ-45 ports (10/100/1000Mbps) of 1 WAN and 4 LAN ports

✓ Auto MDI/MDI-X supported

**WDRT-731U**

| 2.4G 11n/2T2R | 300Mbps |
| 5G 11n/2T2R | 300Mbps |
| 802.11g | 54Mbps |
| 802.11b | 11Mbps |

*Theory Value

# Product Features

◆ **Fixed-network Broadband Router**

    ✓ **WAN types:**

        ■ **Dynamic IP**

        ■ **Static IP**

        ■ **PPPoE**

        ■ **L2TP / PPTP**

        ■ **PPPoE Dual Access**

    ✓ **Support Static Routing, UPnP, Dynamic DNS and PLANET DDNS**
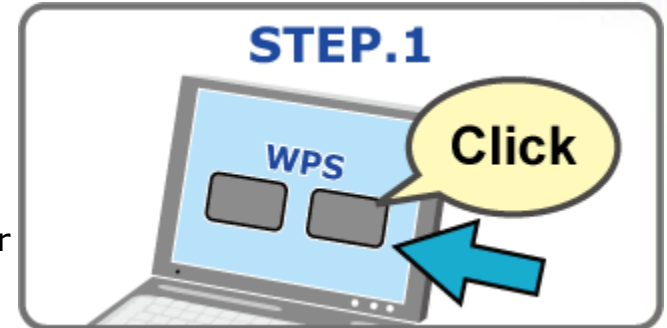
# Product Features

◆ **Secure Network Connection**

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

- ✓ Advanced security:

  - ■ **64/128-bit WEP**

  - ■ **WPA/WPA2**

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

- ✓ Supports **NAT firewall** to protect against DoS attacks

- ✓ Supports Grouping-Based Security Filtering **IP** / **Protocol-based** access control and **MAC Filtering**

# 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 WDRT-731U, push the **WPS Hardware Button** from the rear panel within 2 minutes
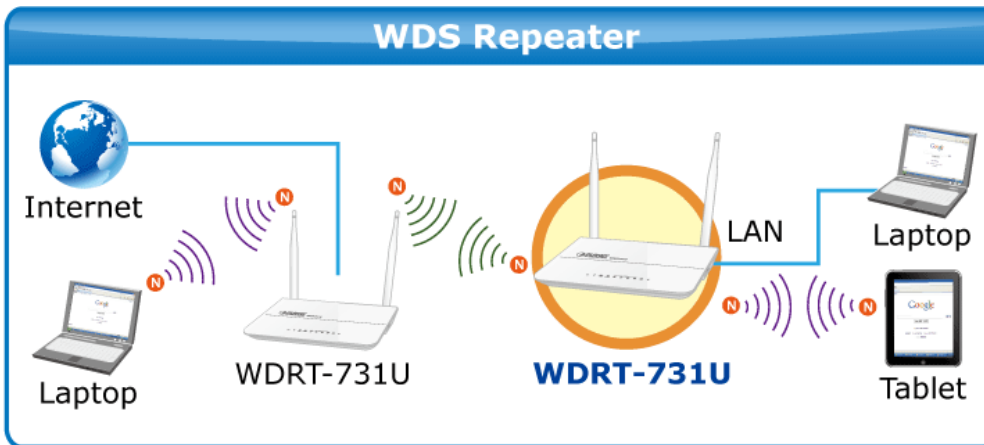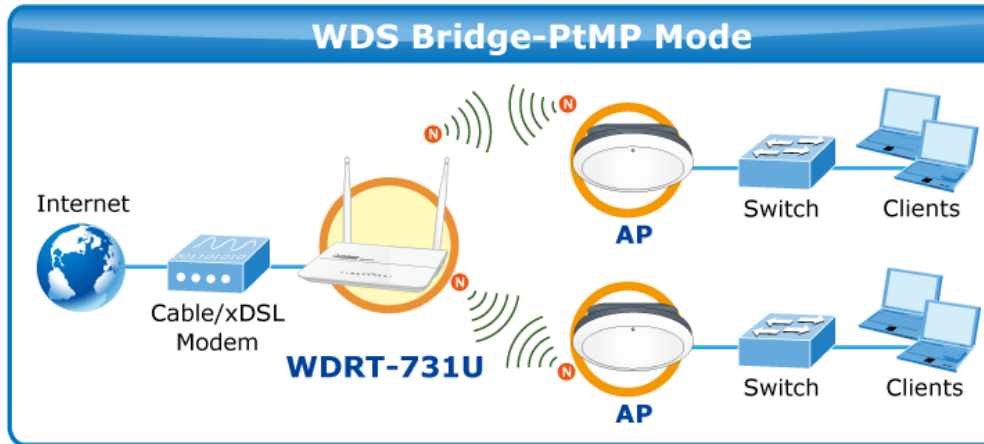
◆ **STEP.3**

 ✓ Wait for the connection being establish
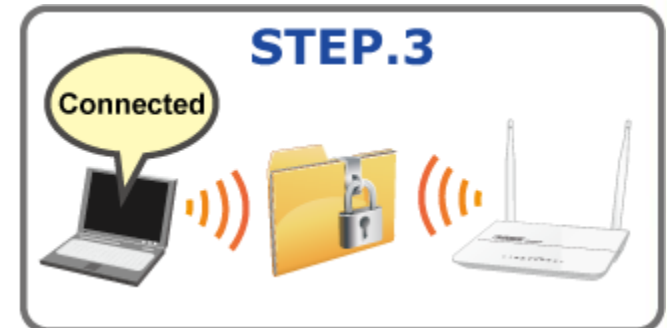
# Product Features

◆ **Multiple Wireless Network Technologies for Greater Access**

  ✓ **Multiple Wireless Modes:**

  ■ **AP**

  ■ **WDS+AP (Repeater)**

  ✓ **Dual 5dBi** antennas provide better RF coverage and reduce the dead-spot indoor
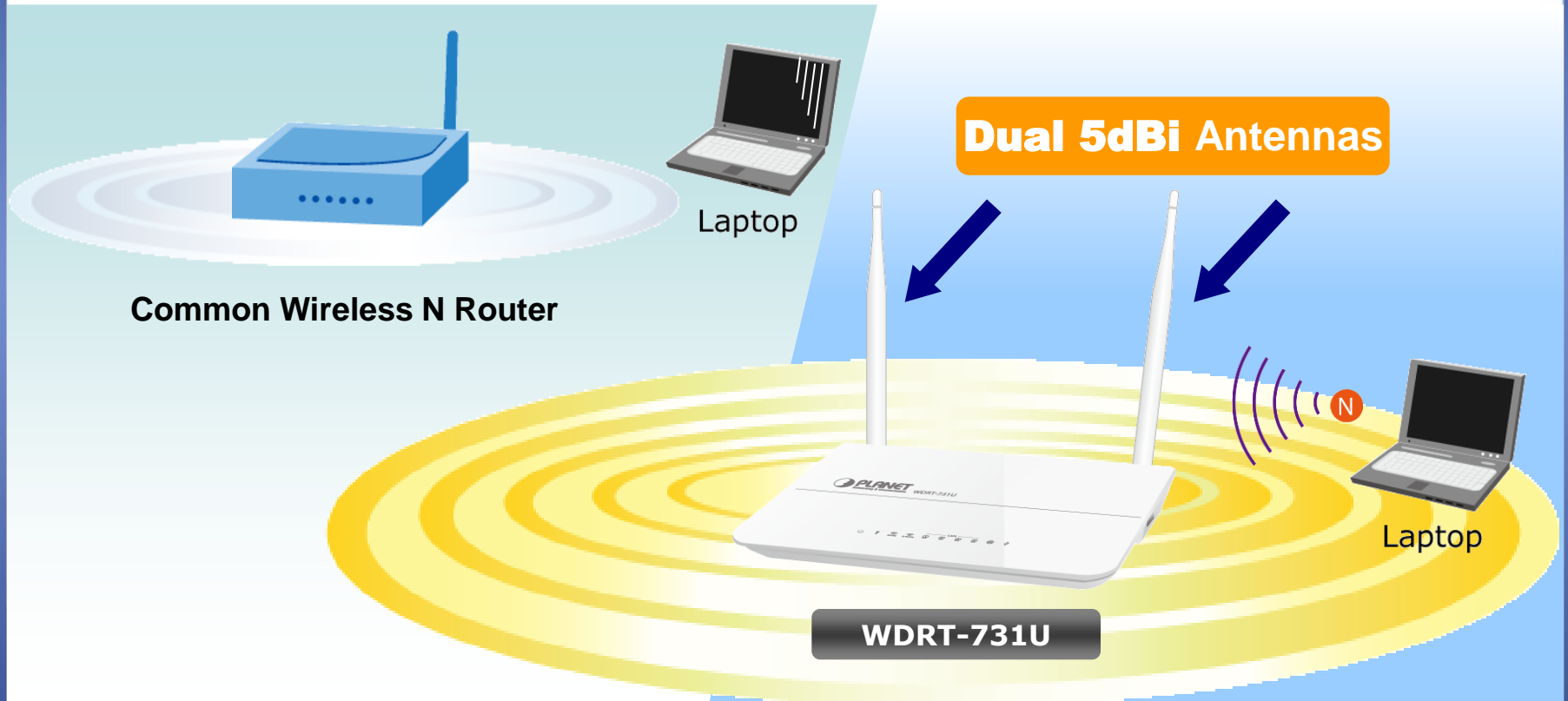
# Product Applications

◆ **Various applications in your network environment**

# Product Features

◆ **Dual Band 2.4G/5GHz with 5dBi fixed Antenna**

✓ – Wide Wireless Coverage Range
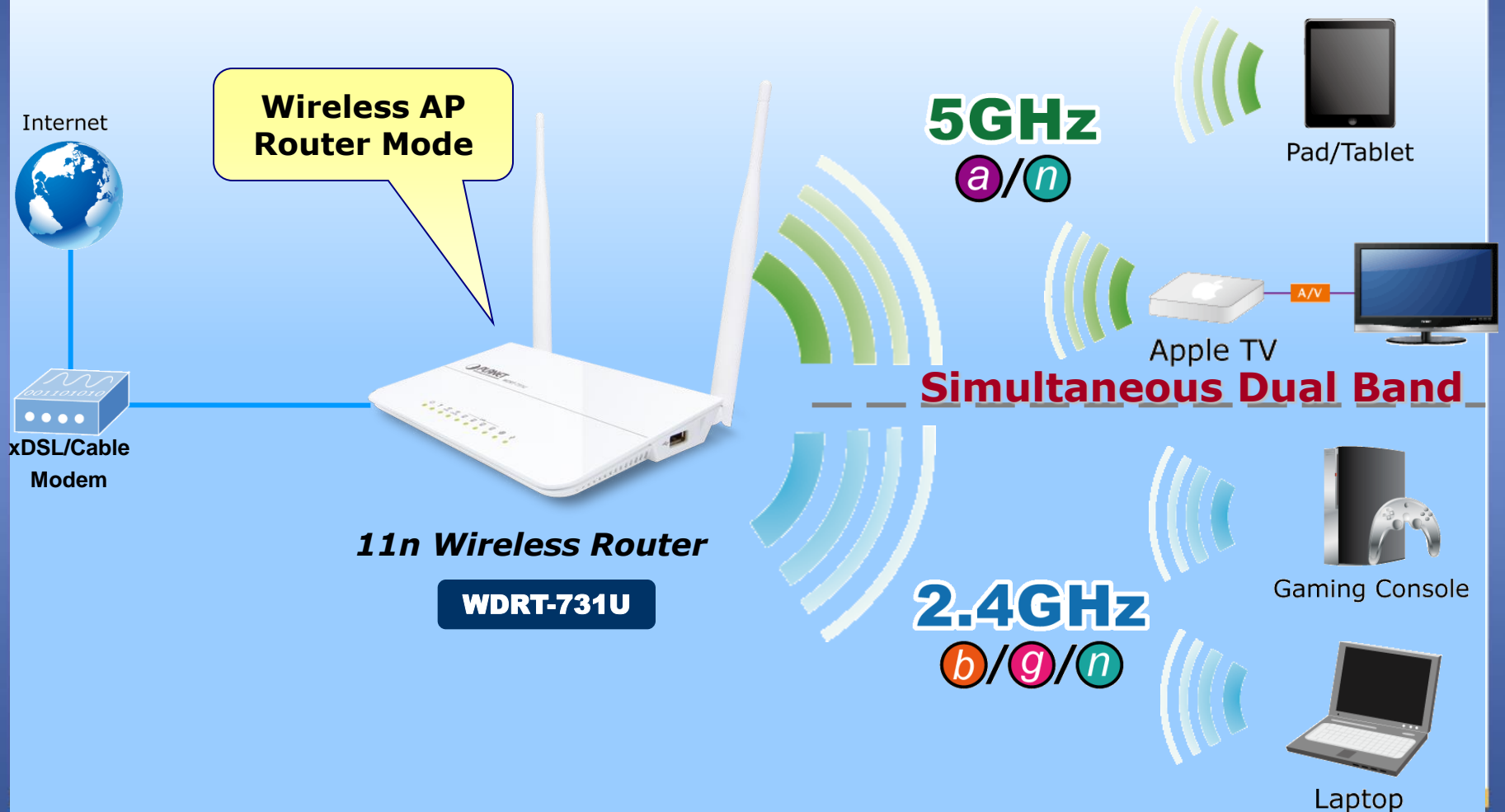
✓ – MIMO Technology for reducing Dead-spot

Laptop

**Dual 5dBi** Antennas

**Common Wireless N Router**

Laptop

**WDRT-731U**

# Wireless Mode

◆ **Wireless Access Point**

✓ **Acts as a central hub for wired / wireless LAN and connect to the Internet**

Internet

**Wireless AP Router Mode**

xDSL/Cable Modem

**5GHz**
*a* / *n*

Pad/Tablet

Apple TV

A/V

**Simultaneous Dual Band**

*11n Wireless Router*

**WDRT-731U**

Gaming Console
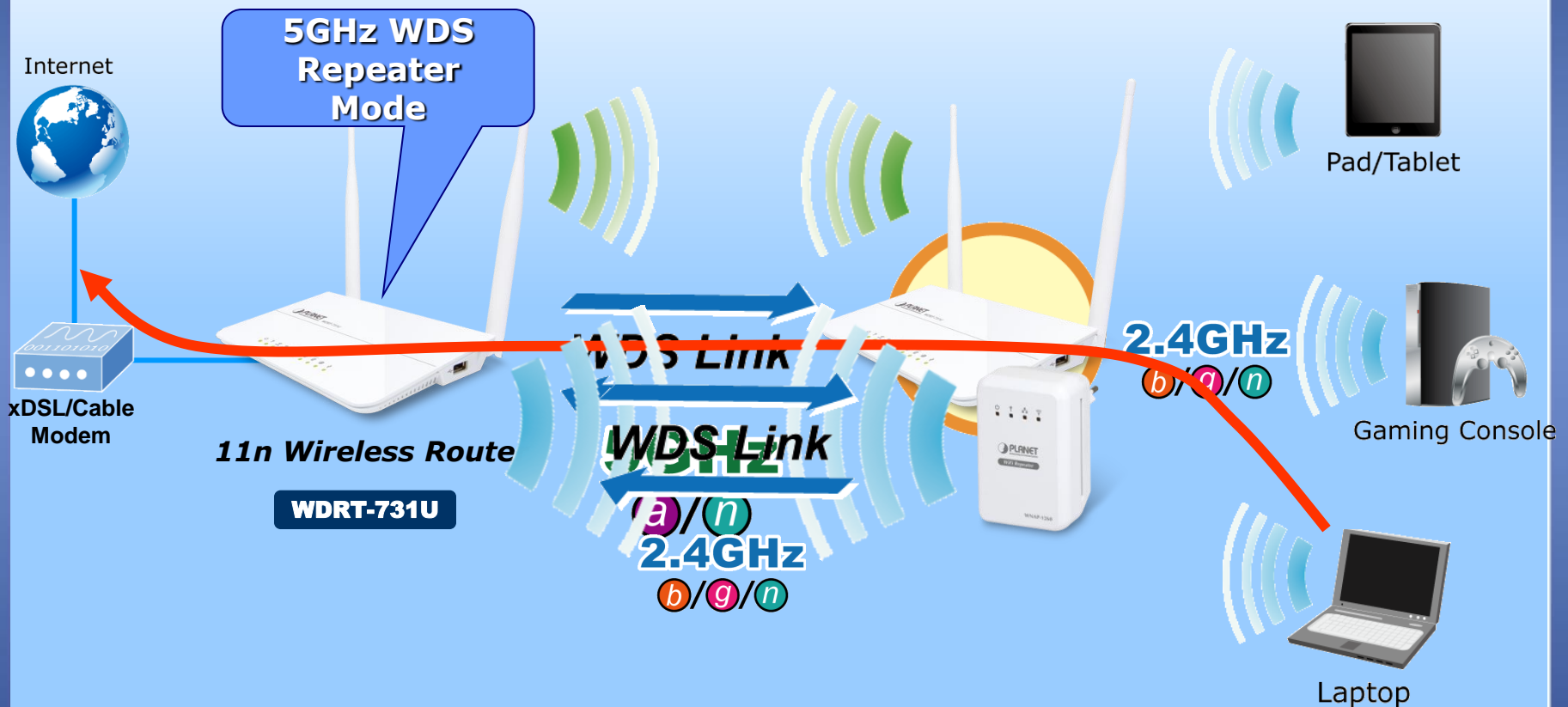
**2.4GHz**
*b* / *g* / *n*

Laptop

# Wireless Mode

◆ **WDS Repeater Mode – 2.GHz WDS + 2.4GHz AP Application**

✓ Bridge two or three APs and provides access for wireless clients at the same time
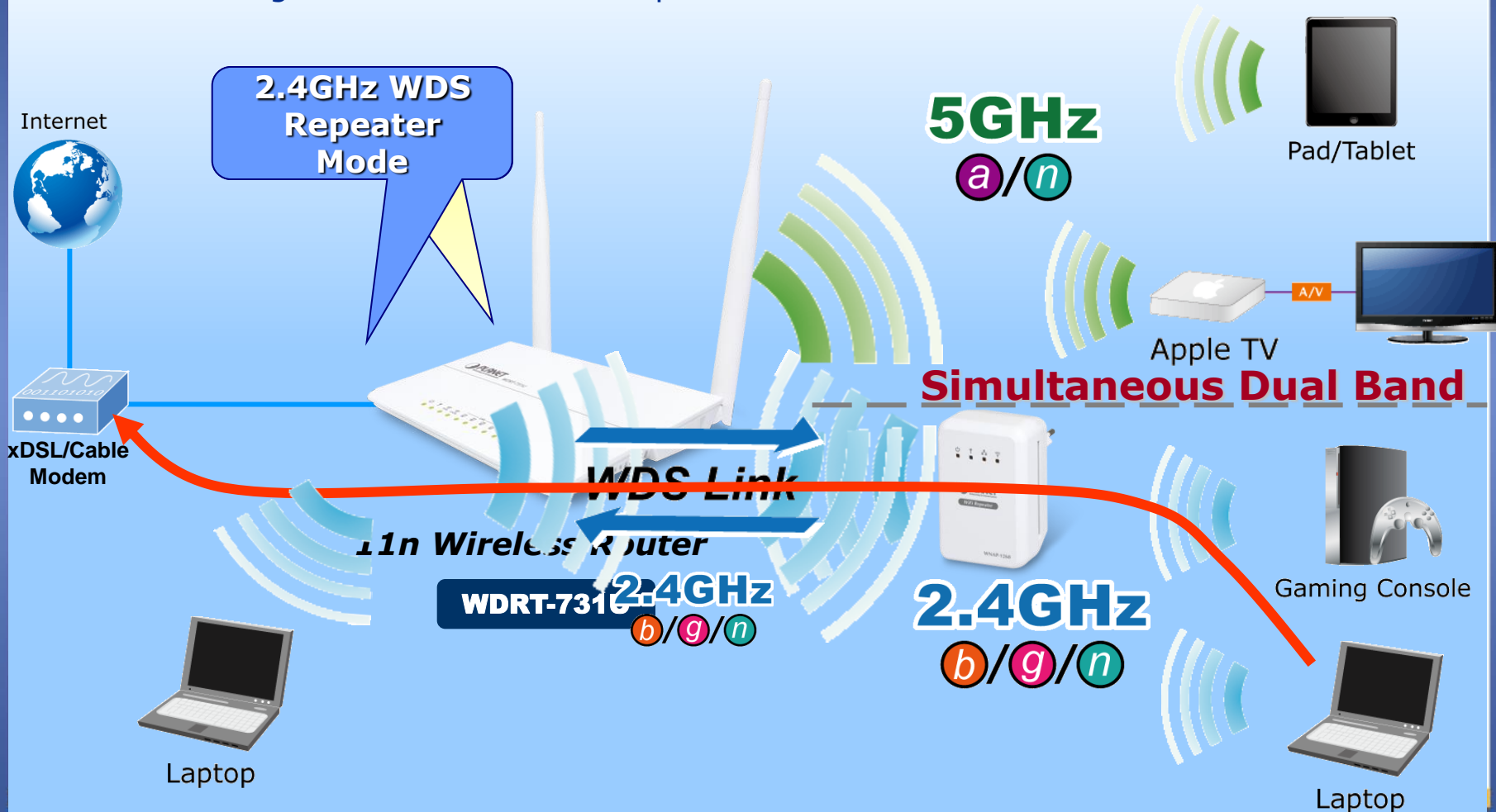
# Wireless Mode

◆ **WDS Repeater Mode – 5GHz WDS + 2.4GHz AP Application**

# Product Features

◆ **Advanced Networking function for Specific Application**

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

✓ Supports **NTP**, **Port Forwarding**, **Virtual Server**, and **DMZ** for various networking applications

✓ Supports DHCP Server

◆ **Easy Installation & Management**

✓ Web-based UI for and Quick setup for easy configuration

✓ Remote Management allows configuration from a remote site

✓ System status monitoring includes DHCP Client, System Log

# Web UI – Easy Quick Setup

# Security Feature

◆ **Parental Control - per Scheduling Rule**

✓ By setting up the **schedule**, the restricted users shall follow the time restriction for the Internet Accessing. Say, your young girl or boy at school.
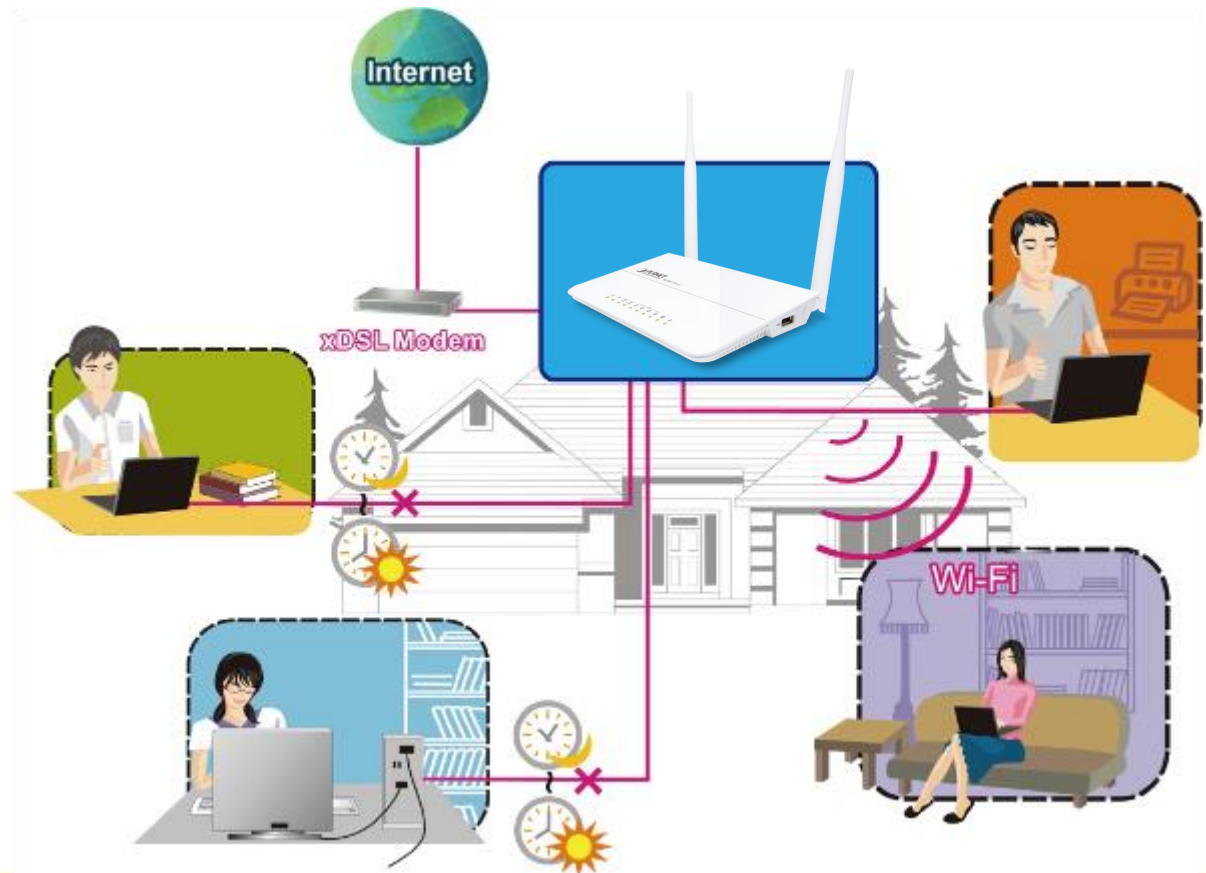
# Product Comparison

◆ **WDRT-731U vs. WDRT-730**

| PLANET Model | | WDRT-731U | WDRT-730 |
|---|---|---|---|
| **Product Image** | |  |  |
| **Product Level** | | Basic | Basic / Advanced |
| **Applications** | | **Home / SOHO Router** | **Home / SOHO Router**<br>**Power user / Small Office / WISP Project** |
| **Features** | | **Easy Configure** | **Multiple Wireless mode, Larger environment** |
| **Hardware** | | | |
| **Wireless Standard** | | IEEE802.11a/b/g/n | IEEE802.11a/b/g/n |
| **Max. Data rate** | | 300+300Mbps | 300+300Mbps |
| **MIMO System** | | 2T2R | 2T2R |
| **Antenna** | | 5dBi Omni fixed x 2 | 3dBi Omni fixed x 2 |
| **Network Interface** | **WAN** | 1 x 1000T WAN | 1 x 1000T WAN |
| | **LAN** | 4 x 1000T LAN | 4 x 1000T LAN |
| | **IPTV Port** | ■ (LAN Port 4) | - |
| **USB Port** | **USB Mass Storage** | ■ | - |
| | **USB Printer Server** | ■ | - |
| **WPS / Reset Button** | | ■ | ■ |
| **Wireless ON/OFF Switch** | | - | ■ |
| **Max. Client** | | Wire:15 / Wireless: 10 | Wire: 100 / Wireless: 64 |
| **Max. Session Number** | | 8000 | 10240 |

# Product Comparison

◆ **WDRT-731U vs. WDRT-730**

| PLANET Model | | WDRT-731U | WDRT-730 |
|---|---|---|---|
| **Product Image** | | | |
| **Wireless Features** | | | |
| **Wireless Mode** | AP (Access Point) | ■ | ■ |
| | WDS Bridge | PtP / PtMP (2) | PtP / PtMP (4) |
| | WDS Repeater (WDS + AP) | ■ | ■ |
| | Universal Repeater (AP+Client) | - | ■ |
| | AP Client \ Station | - | ■ |
| | WISP | - | ■ |
| **Wireless Security** | WEP | ■ | ■ |
| | WPA/WAP2-PSK | ■ | ■ |
| | WPA/ WPA2 | ■ | ■ |
| | 802.1X | - | ■ |
| | WPS | ■ | ■ |
| **Wireless Advanced Features** | Guest SSID | ■ | - |
| | AP Isolation | ■ | - |
| | MAC Access Control | ■ | ■ |
| | WMM | ■ | ■ |
| | Transmit Power Control | - | ■ |

# Product Comparison

◆ **WDRT-731U vs. WDRT-730**

| PLANET Model | | WDRT-731U | WDRT-730 |
|---|---|---|---|
| **Product Image** | | | |
| **Router Features** | | | |
| **Internet Connection Type** | Dynamic IP | ■ | ■ |
| | Static IP | ■ | ■ |
| | PPPoE / PPTP / L2TP | ■ / ■ / ■ | ■ / ■ / ■ |
| | WISP | - | ■ |
| QoS | | ■ (By IP) | ■ (By IP) |
| IP/Port/MAC/URL Filtering | | ■ | ■ |
| DMZ | | ■ | ■ |
| TTL | | - | ■ |
| VPN Pass Thru. | | ■ (PPTP, L2TP) | ■ |
| Remote Management | | ■ | ■ |
| Application Layer Gateway (ALG) | | - | ■ |
| Time-Based Control | | ■ | ■ |

# Appendix

◆ **Related Products – Wireless Adapter**

| | | |
|---|---|---|
| **WDL-U700** | | **300Mbps 802.11n Dual Band Wireless USB Adapter** |
| **WNL-U556M** | | **300Mbps 802.11n Micro Wireless USB Adapter** |
| **WNL-U554A** | | **150Mbps 802.11n Wireless USB Adapter External 2dBi Antenna** |
| **WNL-U554M** | | **150Mbps 802.11n Micro Wireless USB Adapter** |
| **WNL-9501** | | **150Mbps 802.11n Wireless PCI Express Adapter** |

# Activating IP Power