

802.11n Wireless 3G Router

WNRT-617G



Outline

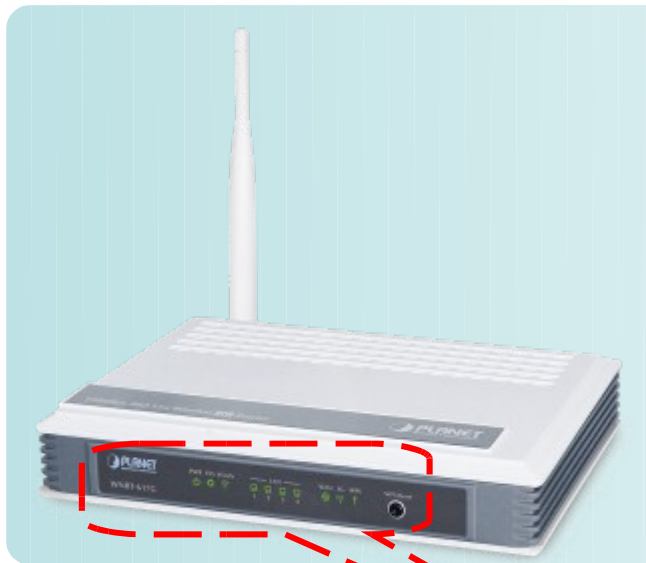
- ◆ **Product Overview**
- ◆ **Product Features**
- ◆ **Product Applications**
- ◆ **Operation Mode**
- ◆ **Web UI**
- ◆ **Comparison - Internal**
- ◆ **Comparison - External**
- ◆ **Appendix**



WNRT-617G

Product Overview

-Front Panel



- ◆ **Dimensions**

174 x 110 x 23 mm

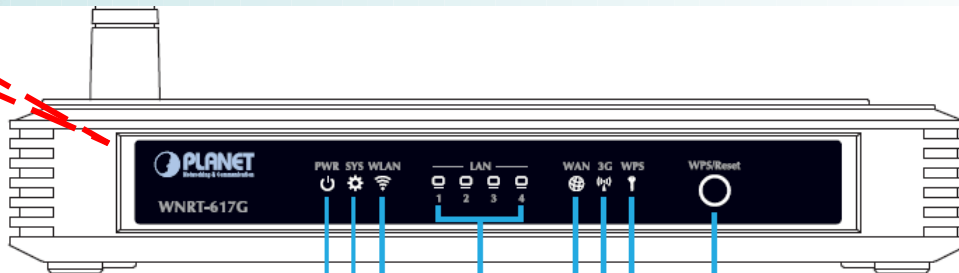
- ◆ **Weight**

200g

- ◆ **Power**

12V DC, 1A

WNRT-617G



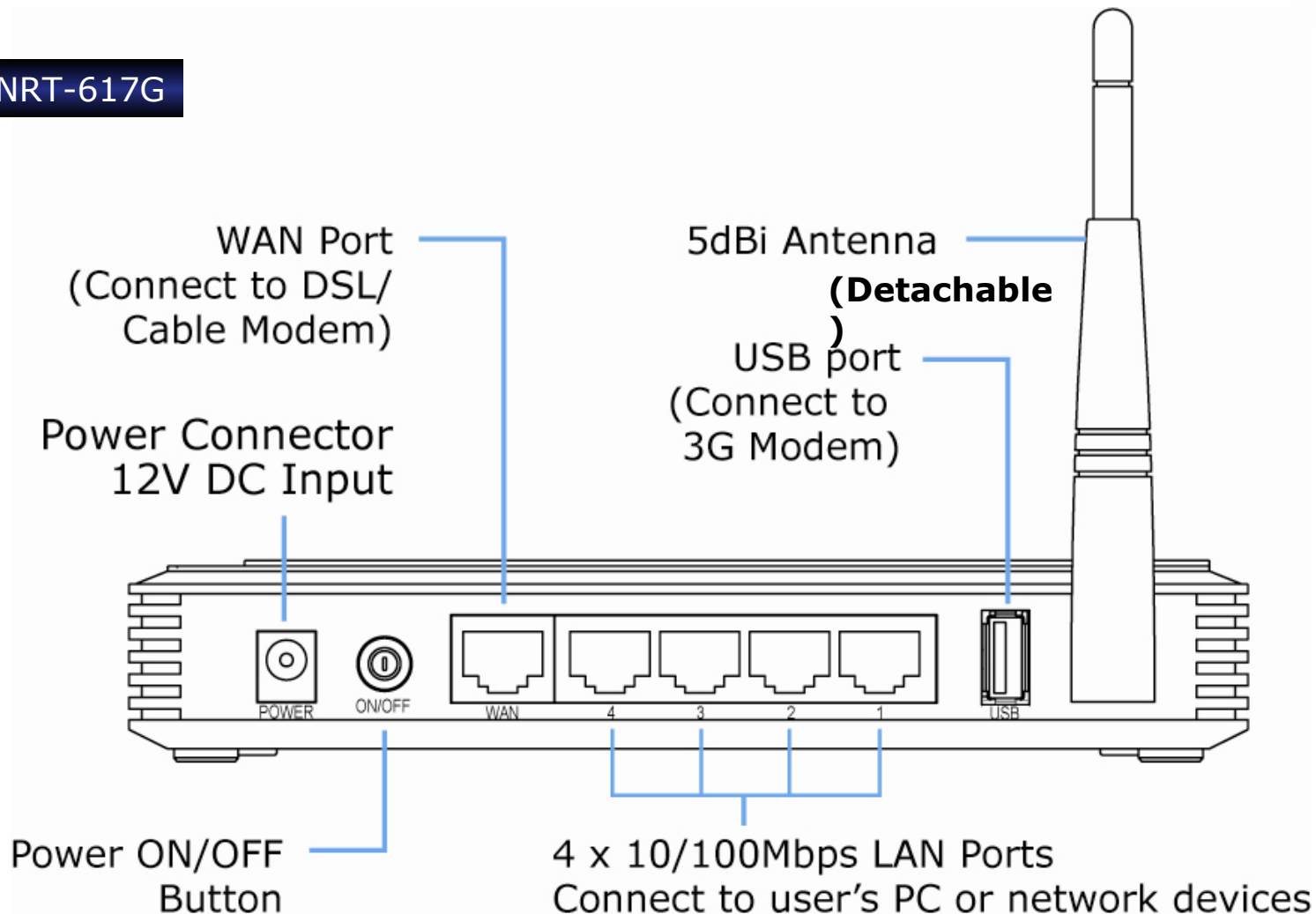
- Power LED
- System LED
- Wireless LED
- LAN1~LAN4 LED
- WAN Port Status LED
- 3G Connection LED
- WPS Function LED
- WPS/Reset Button

Product Overview

-Rear Panel



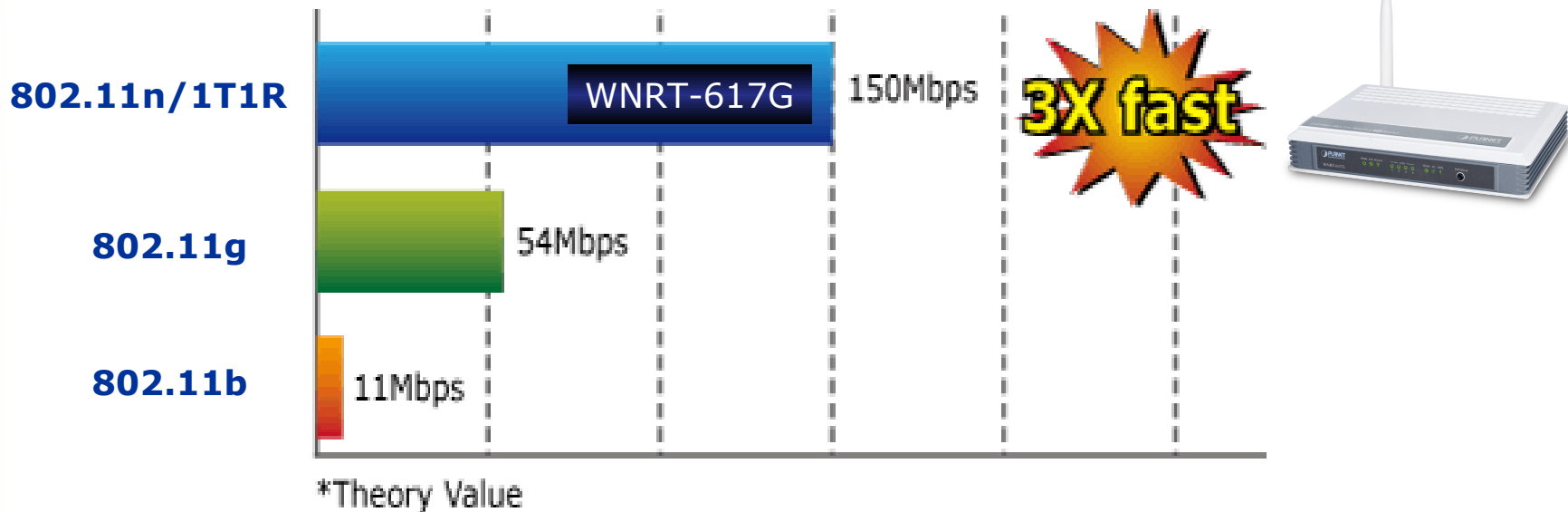
WNRT-617G



Product Features

◆ Industrial Compliant Wireless LAN & LAN

- ✓ Compliant with IEEE 802.11n Wireless Technology
- ✓ Data rate up to 150Mbps
- ✓ Backward Compatible with 802.11b/g Standard
- ✓ LAN/WAN: 10/100Mbps, Auto MDI/MDI-X Supported



Product Features

◆ **3G / 3.75G Mobile Internet Connection**

- ✓ **Dual Network Interfaces: WAN Port for Cable / Wired DSL Service and 3G Mobile Connection**
- ✓ **Compatible with UMTS / HSPA / EVDO Mobile Network**

◆ **Fixed-network Broadband Router**

✓ **WAN types**

- Dynamic IP
- Static IP
- PPPoE
- Telstra Big Pond
- L2TP
- PPTP
- Russia Dual-Access

- ✓ **Supports Static Routing, UPnP, Dynamic DNS**

Product Features

◆ **Secure Network Connection**

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

✓ **Advanced security:**

- 64/128/152-bit WEP
- WPA/WPA2
- WPA-PSK/WPA2-PSK (TKIP/AES encryption)
- 802.1x

✓ **Support NAT firewall features, with SPI function to protect against DoS attacks**

✓ **Support IP / Protocol-based access control and MAC Filtering**

Product Features – WPS Easy Setup

◆ WPS (Wi-Fi Protected Setup)

– Quick and Easy Wireless Connection

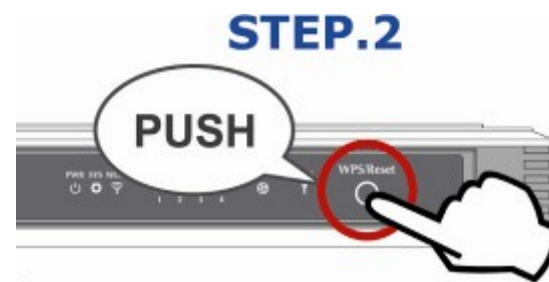
✓ STEP.1

In the Wireless Client, click the WPS Software Button from the Web UI



✓ STEP.2

In the AP, push the WPS Hardware Button from the front panel within 2 minutes



✓ STEP.3

Wait for the connection being establish

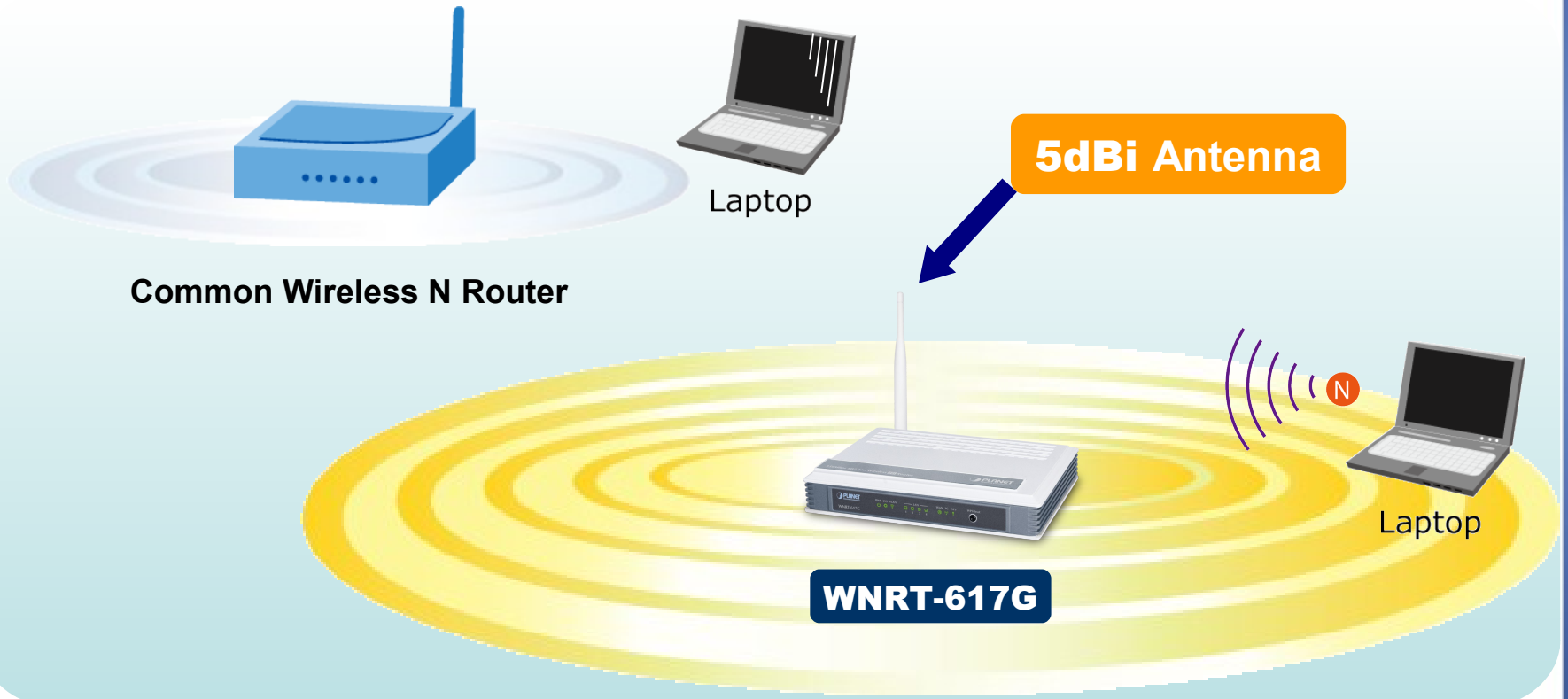


Product Features

- ◆ **Multiple Wireless Network Technologies for Greater Access**
 - ✓ **Multiple Operation Modes:**
 - AP
 - Client
 - WDS (Bridge)
 - WDS+AP
 - WISP
 - ✓ **5dBi high gain antenna provides better RF coverage and reduce the dead-spot indoor**

Product Features

- ◆ **5dBi High Gain Antenna**
 - **Wide Wireless Coverage Range**
 - **Reduce Dead-spot**



Product Features

- ◆ **Secure Network Connection**
 - ✓ **Supports Static Routing, WDS, UPnP, Dynamic DNS**
 - ✓ **Supports Wi-Fi Protected Setup (WPS)**
 - ✓ **Advanced Security: 64/128/152-bit WEP, WPA/WPA2, WPA-PSK/WPA2-PSK with TKIP/AES Encryption, and 802.1x Authentication.**
 - ✓ **Supports NAT Firewall Features, with SPI Function to Protect against DoS Attacks**

Product Features

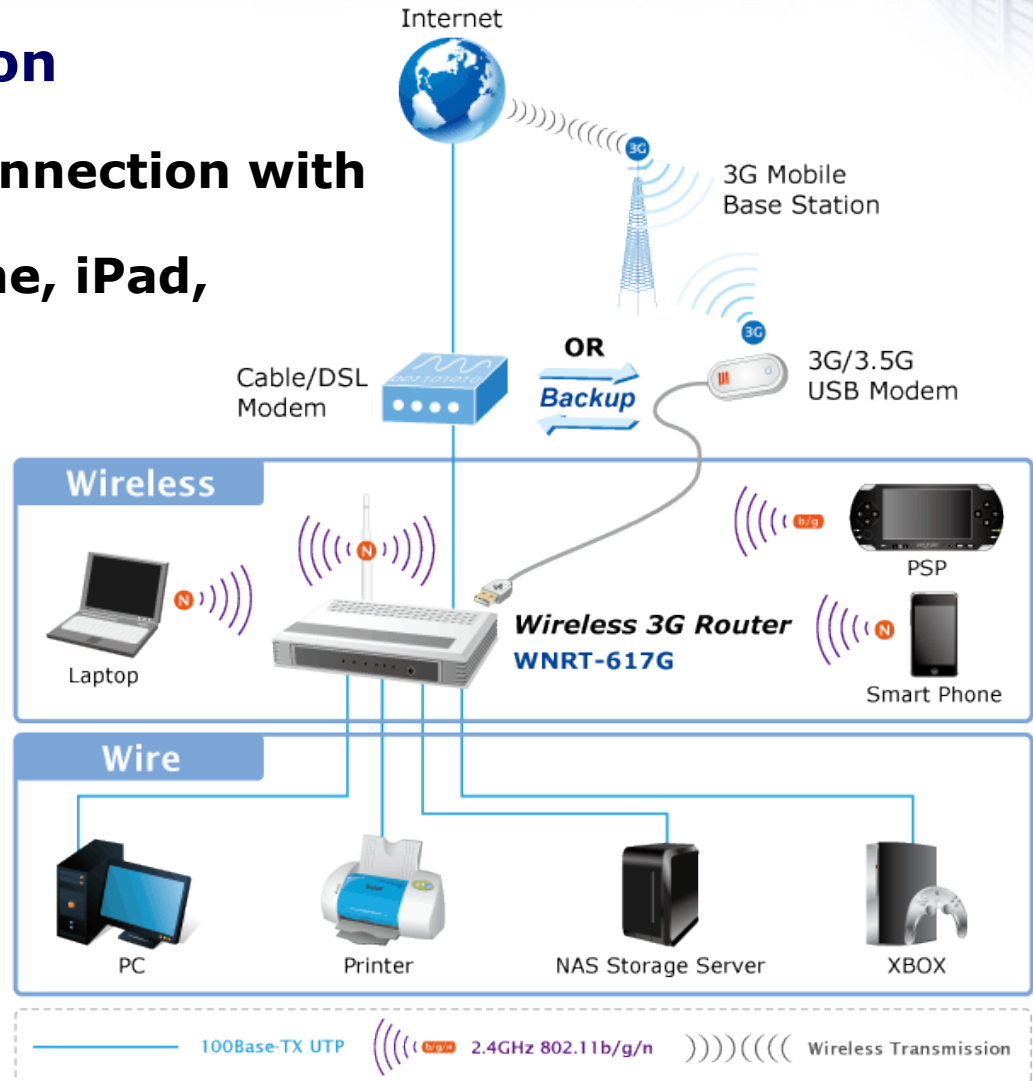
- ◆ **Advanced Networking function for Specific Application**
 - ✓ **Supports multiple sessions IPSec, L2TP and PPTP VPN pass-through**
 - ✓ **Supports Virtual Server, ALG, DMZ and UPnP for various networking applications**

- ◆ **Easy Installation & Management**
 - ✓ **Remote Management allows configuration from a remote site**
 - ✓ **System status monitoring includes DHCP Client, System Log**

Product Applications

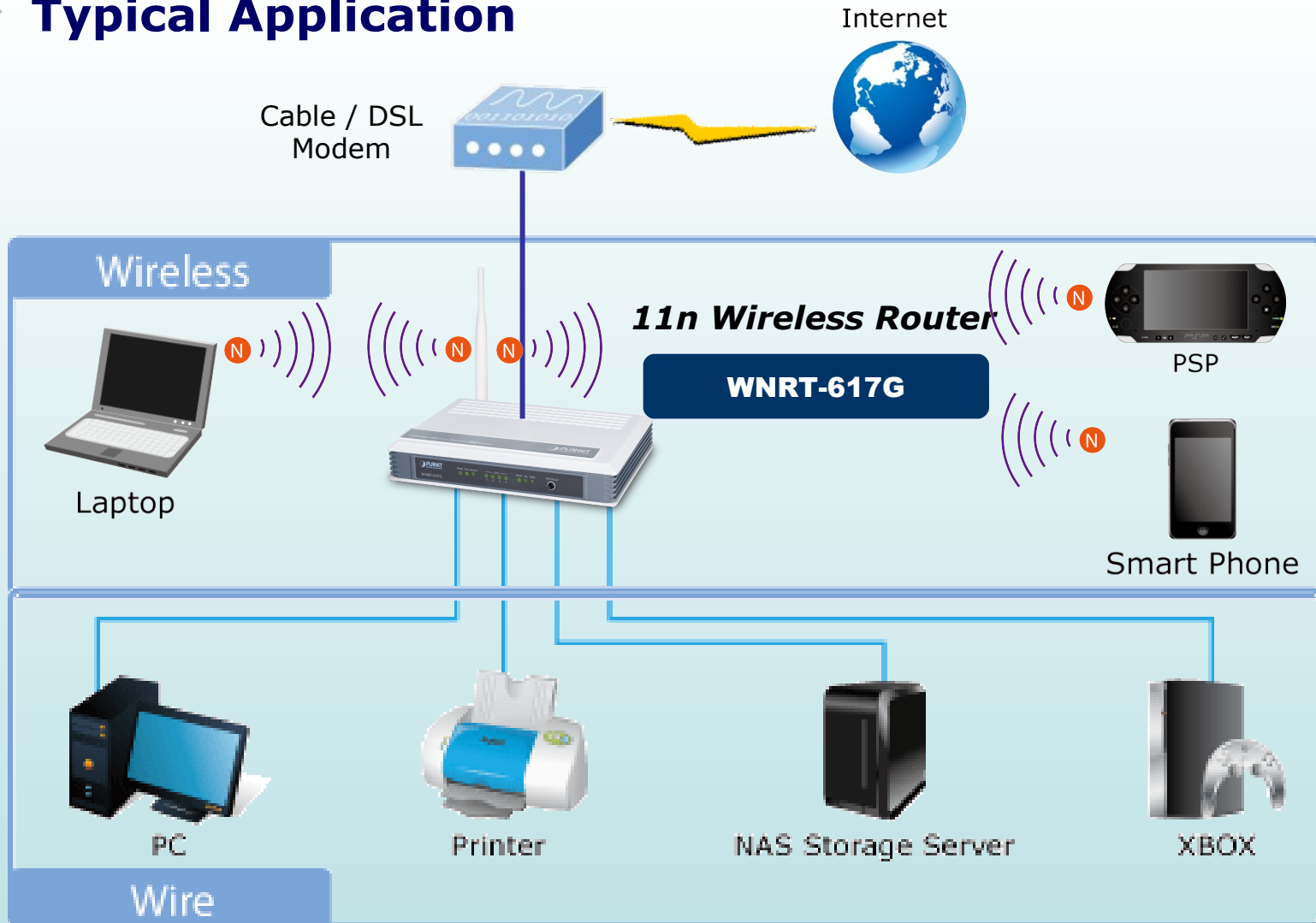
◆ 3G Mobile Connection

- ✓ Easily share the connection with your laptop, iPhone, iPad, and any other Wi-Fi supported devices.



Product Applications

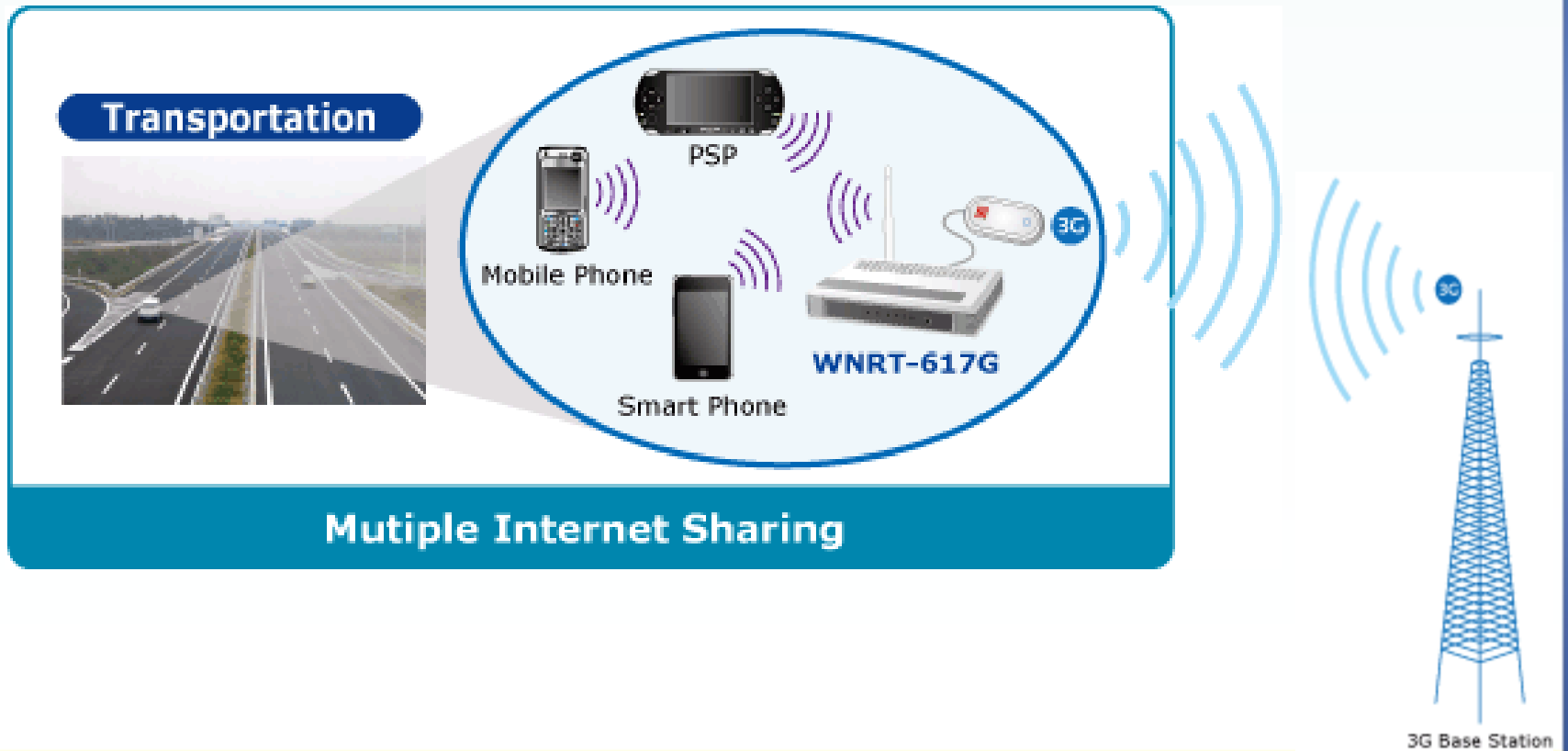
◆ Typical Application



Product Applications

◆ Access The Internet Anywhere And Anytime

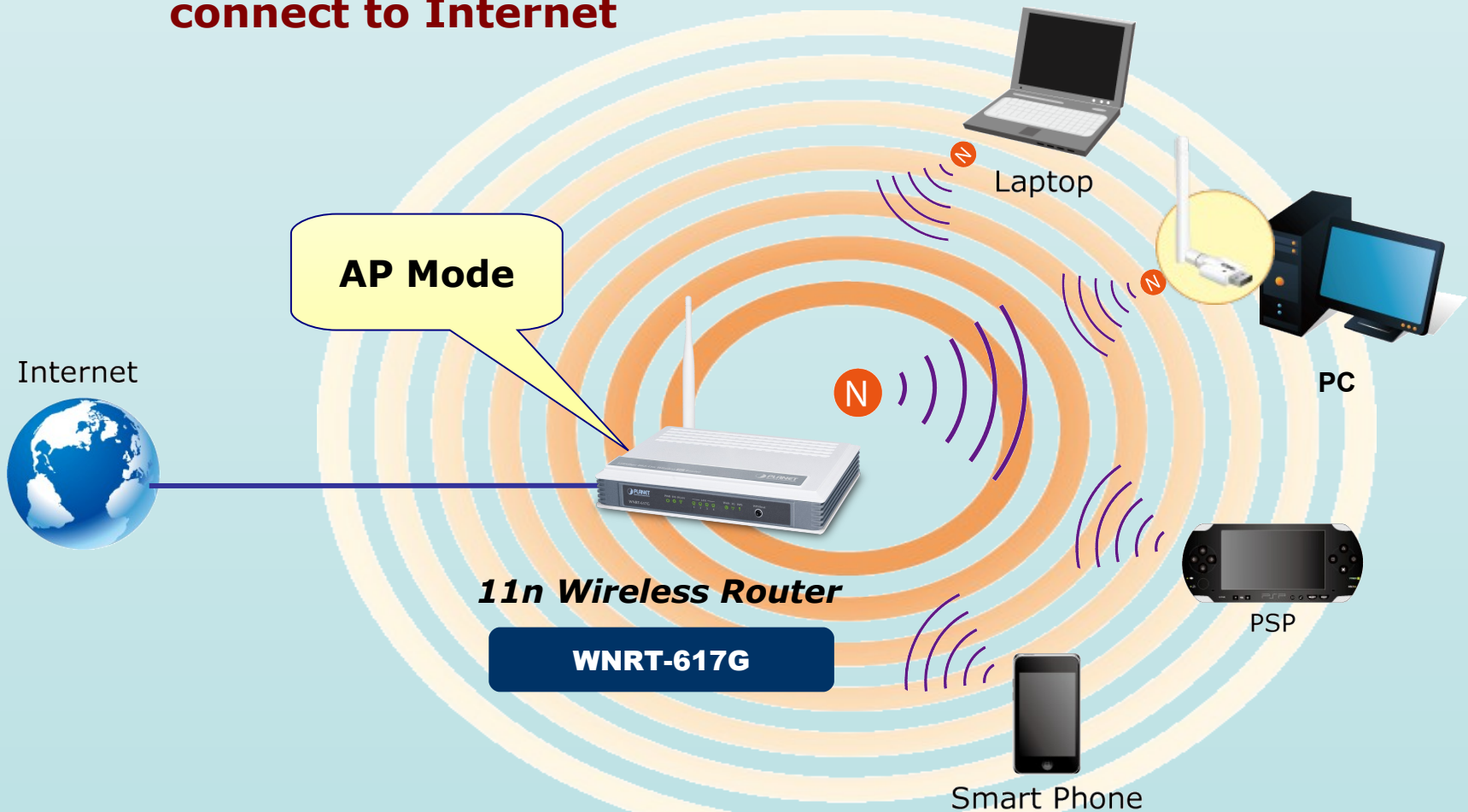
- ✓ Share the Internet with your friends even in transportation or any public area.



Operation Mode

◆ Wireless Access Point

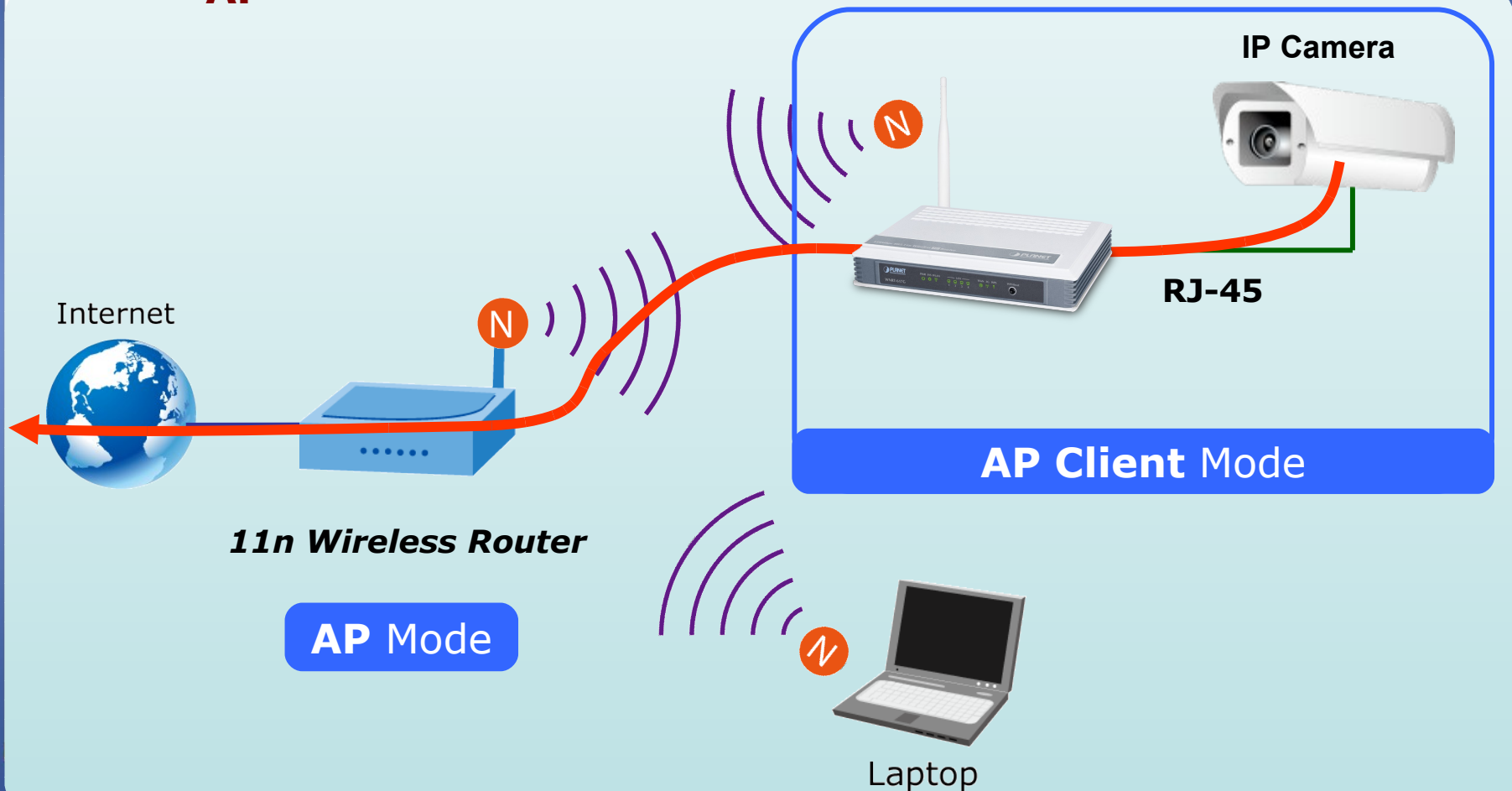
- ✓ Acts as a central hub for wired / wireless LAN and connect to Internet



Operation Mode

◆ AP Client

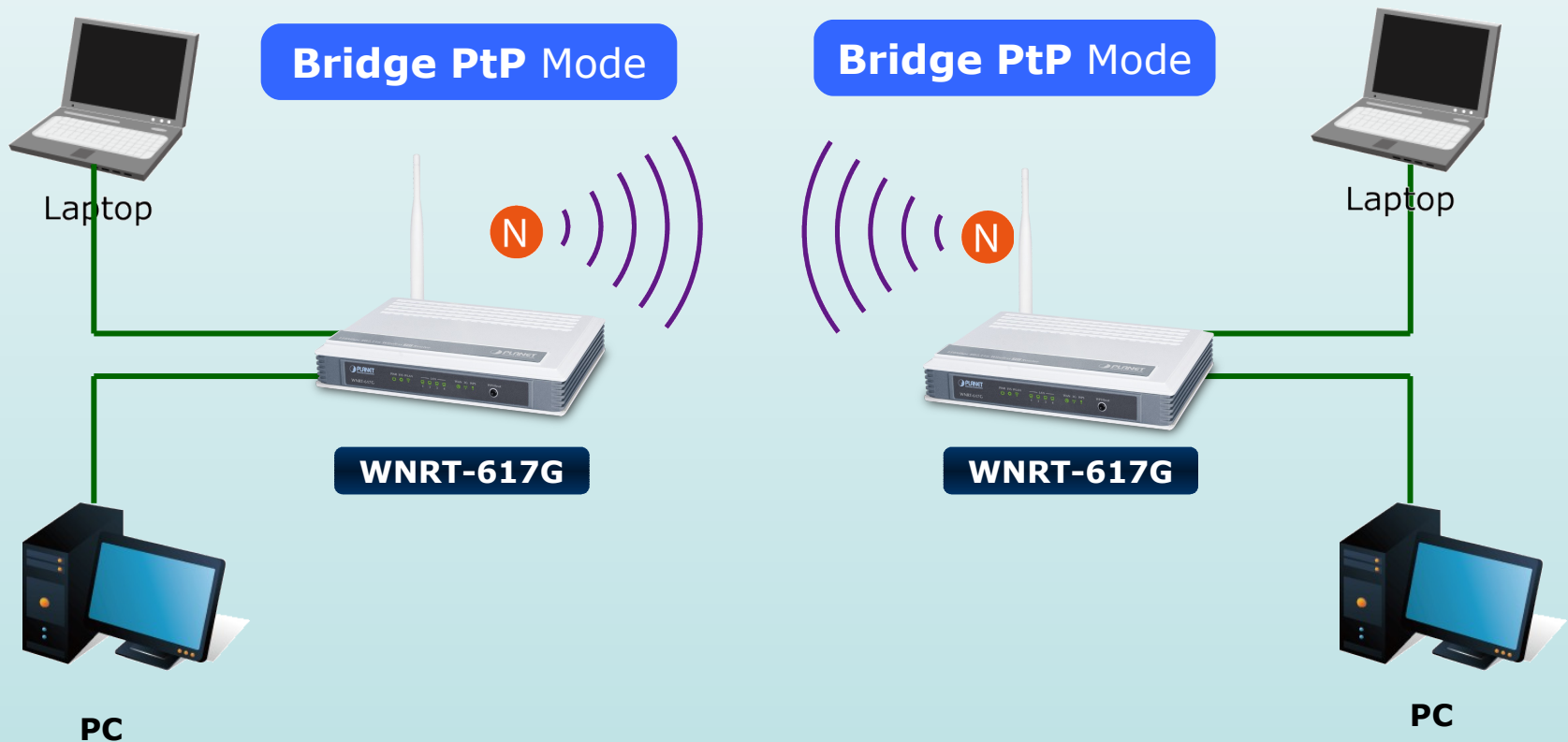
- ✓ Acts as a wireless client connecting with the remote AP



Operation Mode

◆ WDS Bridge – Point to Point Mode

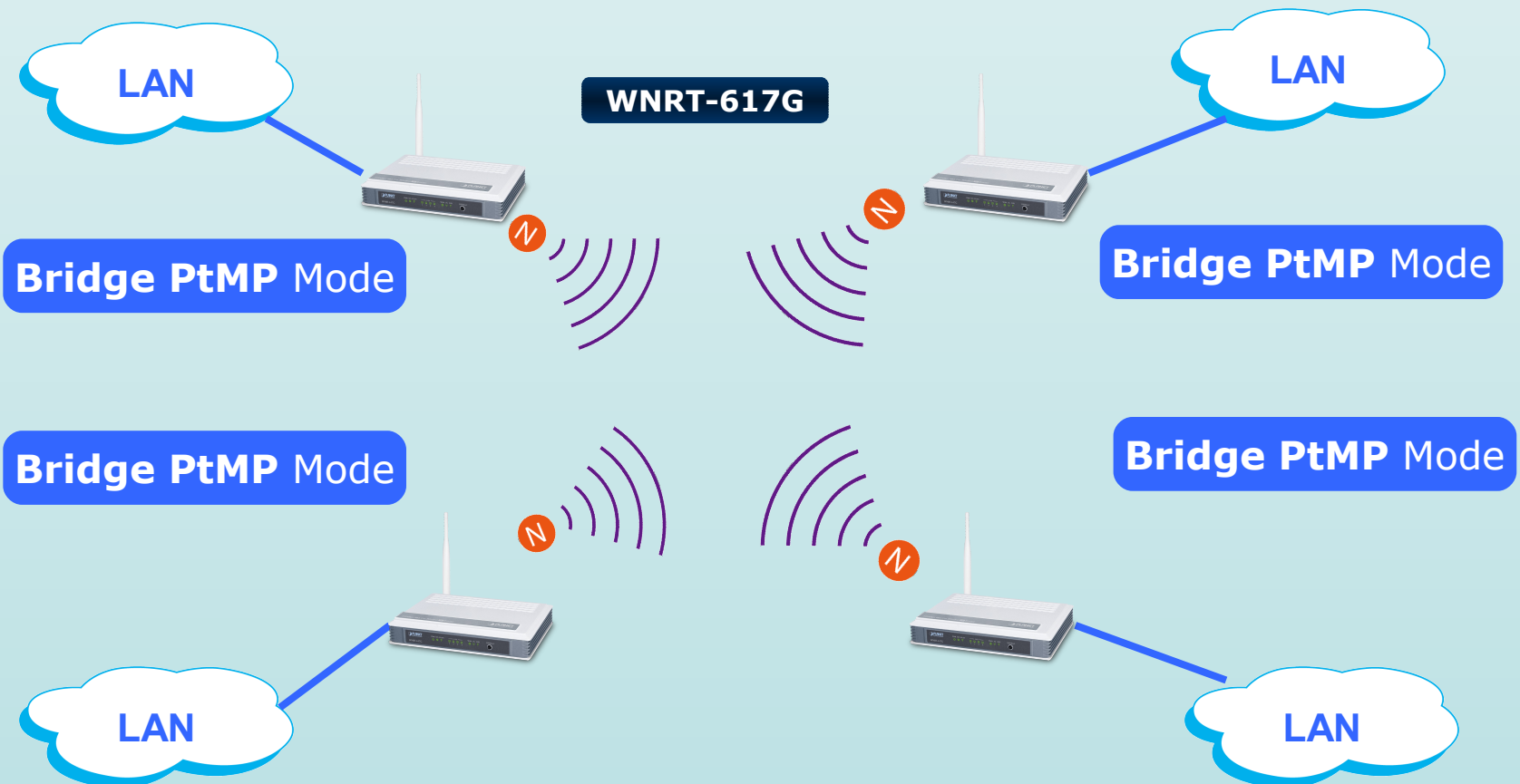
- ✓ Two APs in two remote locations connect to each other wirelessly



Operation Mode

◆ WDS Bridge – Point to Multiple Point Mode

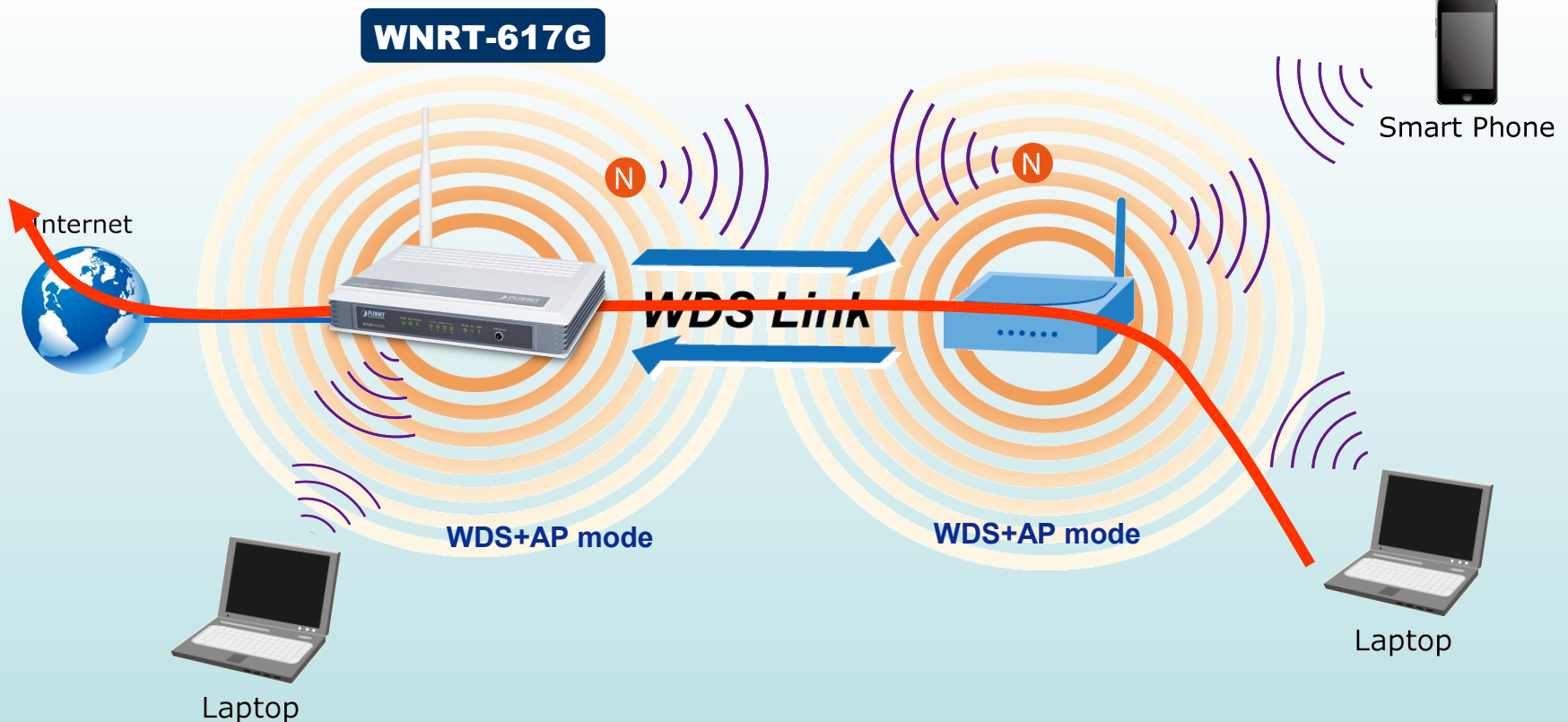
- ✓ Wirelessly connects multiple locations together allowing them to share the same network resources.



Operation Mode

◆ WDS Repeater (WDS + AP) Mode

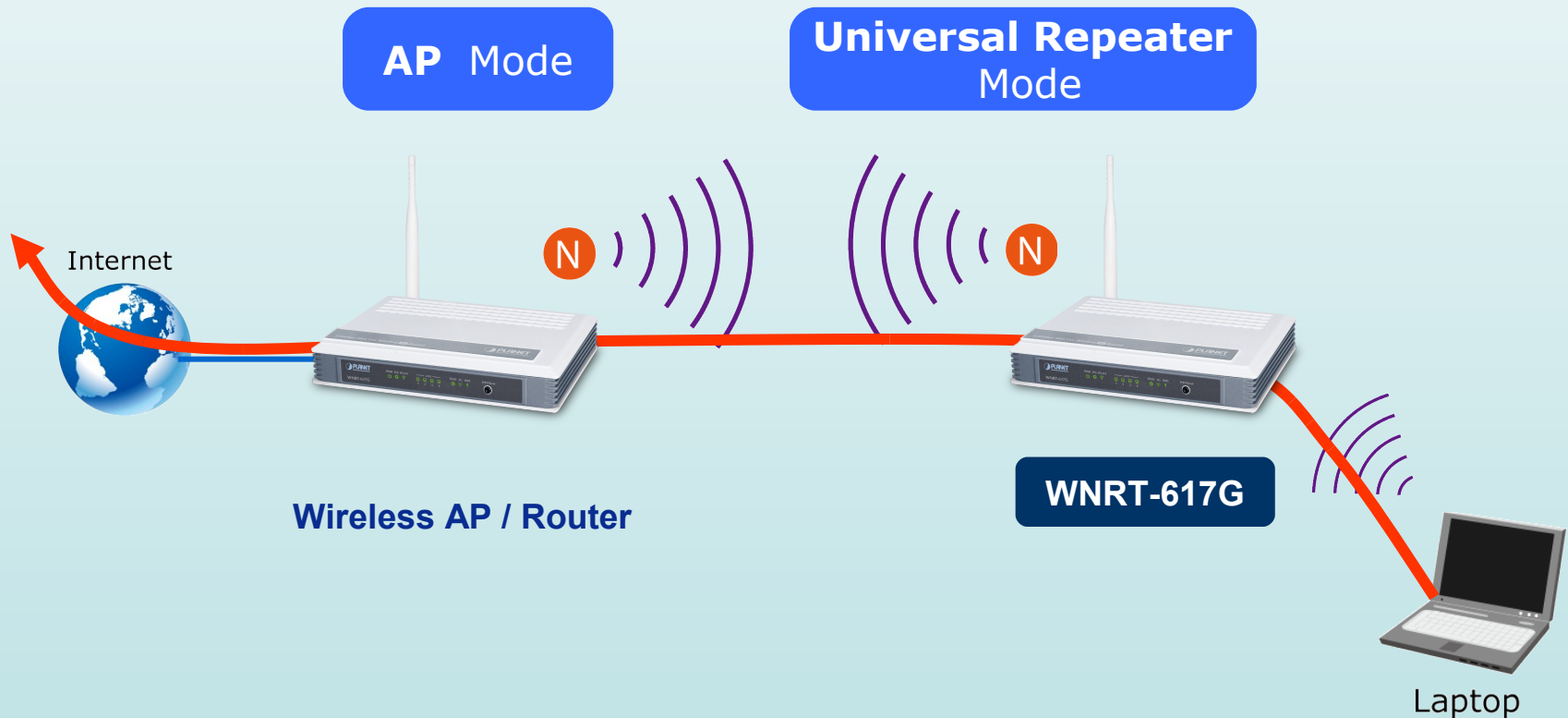
- ✓ Bridge two APs and provides access for wireless clients at the same time



Operation Mode

◆ Universal Repeater Mode

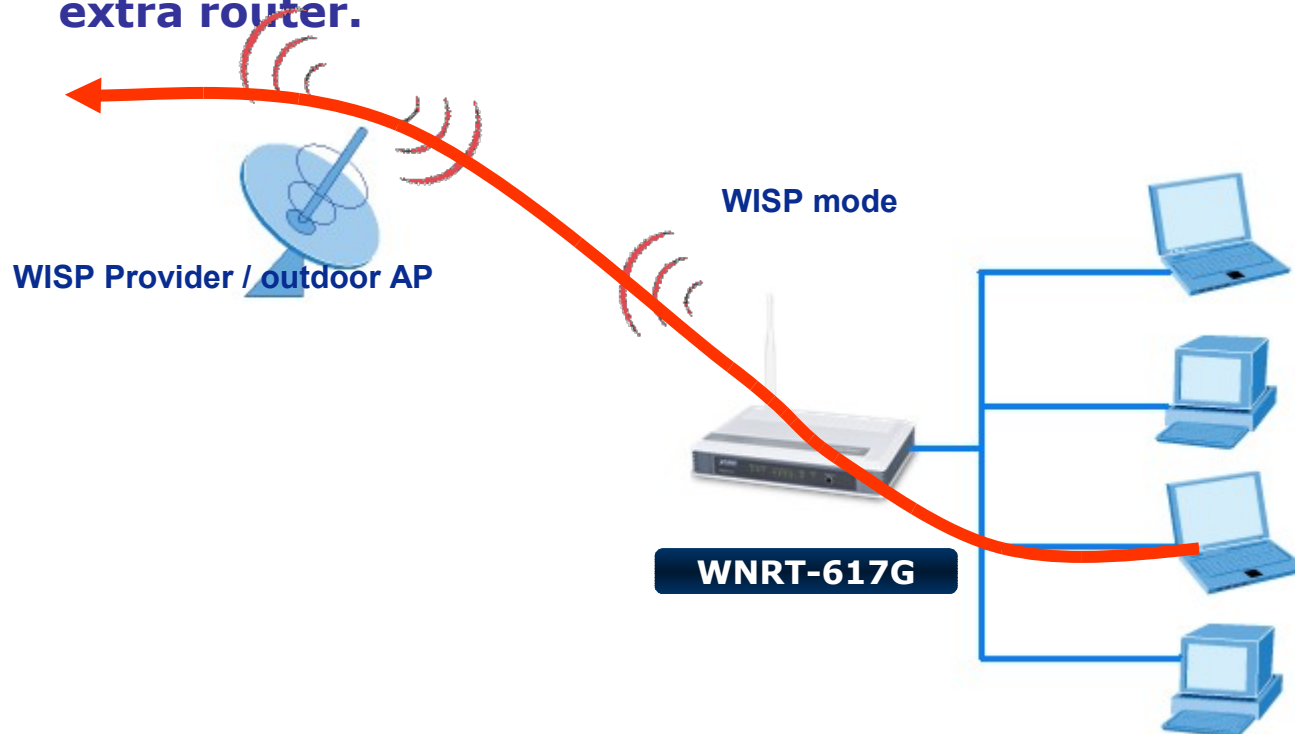
- ✓ Extends the coverage of AP, even if your AP/Router doesn't have WDS function



Operation Mode

◆ WISP Mode

- ✓ Acts as a Wireless client to connect to an existing network via an Access Point. IP sharing function is enabled so the clients can share the WISP connection without the need for extra router.



Web UI - Main



- Status
- Quick Setup
- WPS
- Network
- Wireless
- DHCP
- Forwarding
- Security
- Parental Control
- Access Control
- Advanced Routing
- Bandwidth Control
- IP & MAC Binding
- Dynamic DNS
- System Tools

Status

Firmware Version: 3.12.8 Build 110302 Rel.43954n
 Hardware Version: WNRT-617G v1 00000000

LAN

MAC Address: 00-30-4F-E0-4F-8A
 IP Address: 192.168.1.1
 Subnet Mask: 255.255.255.0

Wireless

Wireless Radio: Enable
 Name (SSID): default
 Channel: Auto (Current channel 14)
 Mode: 11bgn mixed
 Channel Width: Automatic
 Max Tx Rate: 150Mbps
 MAC Address: 00-30-4F-E0-

Status Help

The **Status** page displays the Router's current status and configuration. All information is read-only.

LAN - The following parameters apply to the LAN port of the Router. You can configure them in the **Network** -> **LAN** page.

- **MAC Address** - The physical address of the Router, as seen from the LAN.
- **IP Address** - The LAN IP address of the Router.
- **Subnet Mask** - The subnet mask associated with LAN IP address.

Wireless - These are the current settings or information for Wireless. You can configure them in the **Wireless** -> **Wireless Settings** page.

Wireless Radio - Indicates whether the wireless radio feature is enabled or disabled.

Name (SSID) - The SSID of the Router.

Clear & Concise System Status

Easy to understand On-line Help

Web UI – 3G Configuration

- Status
- Quick Setup
- WPS
- Network
- Internet Access
- 3G
- WAN
- MAC Clone
- LAN
- Wireless
- DHCP
- Forwarding
- Security
- Parental Control
- Access Control
- Advanced Routing
- Bandwidth Control
- IP & MAC Binding
- Dynamic DNS
- System Tools

3G

Supports lots of Mobile ISPs

3G USB Modem: Unplugged.

If your location or ISP is not listed, or the default Dial number / APN is not the latest one, please enable **Set the Dial Number and APN manually** and fill in the right ones.

Location:

Mobile ISP: Default Dial Number: ****99**#** APN: **telstra.bigpond**

Set the Dial Number and APN manually

SIM/UID PIN:

Message: PIN protection is disabled.

Dial Number:

APN:

Username: (optional)

Password: (optional)

Disconnected

The current Internet Access is **3G preferred**. The Connection Mode and Max Idle Time could not be set manually.

Connection Mode: Connect on Demand
 Connect Automatically
 Connect Manually

Web UI - WAN

WAN

WAN Connection Type:

Dynamic IP
Dynamic IP
Static IP
PPPoE/Russia PPPoE
BigPond Cable
L2TP/Russia L2TP
PPTP/Russia PPTP

IP Address:

Subnet Mask:

Default Gateway:

WAN port is unplugged!

**Full Range
of WAN Type**

MTU Size (in bytes):

1500

(The default is 1500, do not change unless necessary.)

Use These DNS Servers

Primary DNS:

0.0.0.0

Secondary DNS:

0.0.0.0

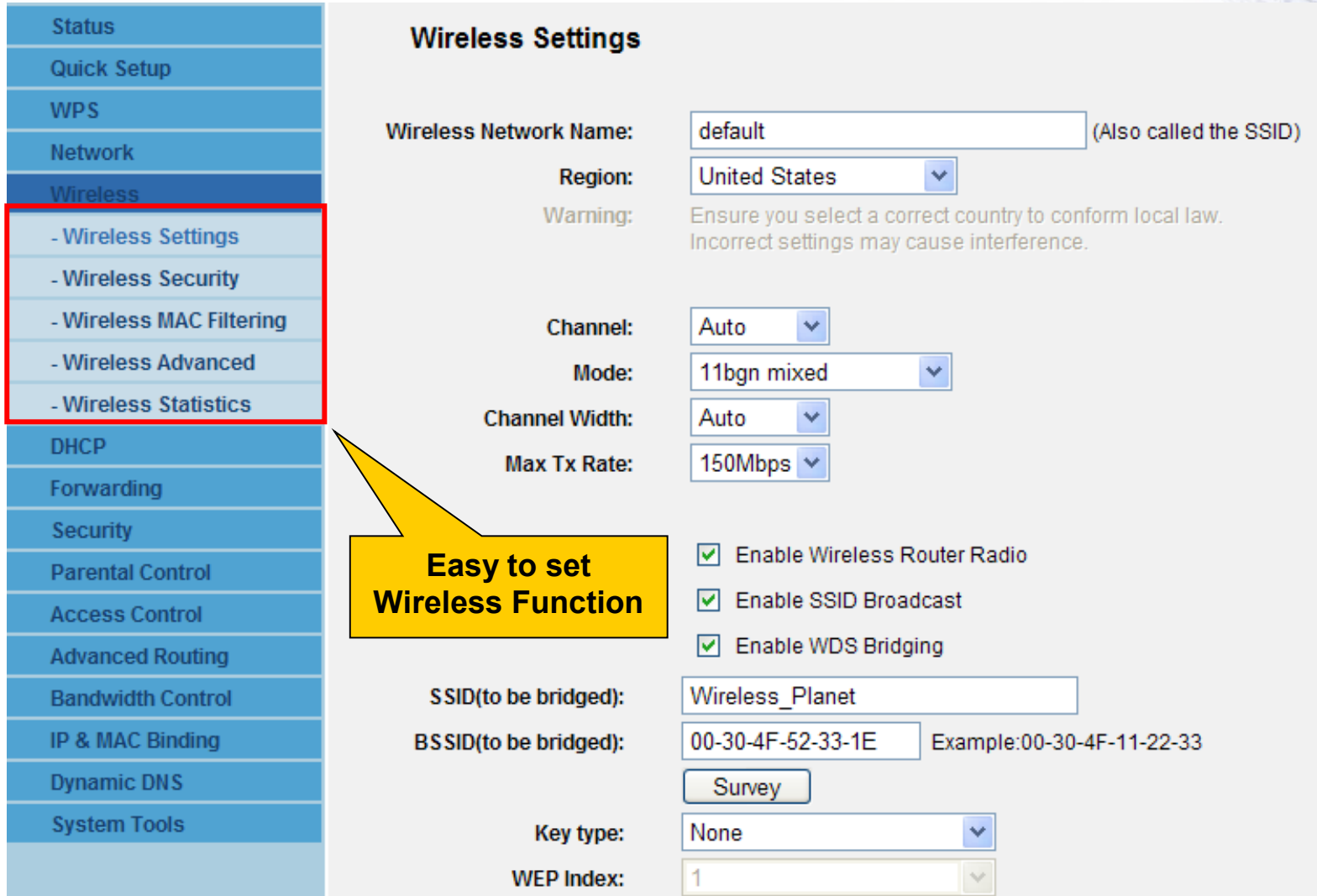
(Optional)

Host Name:

WNRT-617G


Get IP with Unicast DHCP (It is usually not required.)

Web UI - Wireless





Wireless Settings


Wireless Network Name: (Also called the SSID)


Region: 

Warning: Ensure you select a correct country to conform local law. Incorrect settings may cause interference.

Channel: 

Mode: 

Channel Width: 

Max Tx Rate: 


Enable Wireless Router Radio


Enable SSID Broadcast

Enable WDS Bridging

SSID(to be bridged):

BSSID(to be bridged): Example:00-30-4F-11-22-33

Key type: 

WEP Index: 

Easy to set Wireless Function

Web UI – WPS

- ◆ 2 types of WPS: PBC(S/W & H/W Button) and PIN Code.

WPS (Wi-Fi Protected Setup)

WPS Status: **Enabled**

Current PIN: **40584119**

Add a new device:

The change of wireless config will not take effect until the Router reboots, please [click here](#) to reboot.

Type2: as Registrar, enter the PIN code from wireless client; As Enrollee, use Self PinCode fill in wireless client's, then click.

Add A New Device

Enter the new device's PIN

PIN:

Press the button of the new device in two minutes.

WPS PBC S/W Button

Type1: Press PBC button from AP (S/W or H/W) and wireless client in 2 minutes

WPS PBC H/W Button



WNRT-617G

Web UI - Security

SPI Firewall & DoS Protection

- Status
- Quick Setup
- WPS
- Network
- Security
- Security Management
- Management
- Control
- Control
- Routing
- Control
- Binding
- NS
- ols

Basic Security

Firewall

SPI Firewall: Enable Disable

VPN

PPTP Passthrough: Enable Disable

L2TP Passthrough: Enable Disable

IPSec Passthrough: Enable Disable

ALG

FTP ALG: Enable Disable

TFTP ALG: Enable Disable

H323 ALG: Enable Disable

RTSP ALG: Enable Disable

Save

Advanced Security

Packets Statistics Interval (5 ~ 60): Seconds

DoS Protection: Disable Enable

Enable ICMP-FLOOD Attack Filtering

ICMP-FLOOD Packets Threshold (5 ~ 3600): Packets/s

Enable UDP-FLOOD Filtering

UDP-FLOOD Packets Threshold (5 ~ 3600): Packets/s

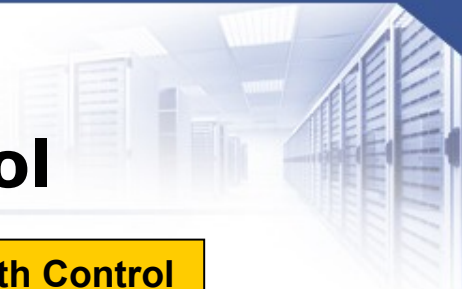
Enable TCP-SYN-FLOOD Attack Filtering

TCP-SYN-FLOOD Packets Threshold (5 ~ 3600): Packets/s

Ignore Ping Packet From WAN Port

Forbid Ping Packet From LAN Port

Web UI – Different Control



Bandwidth Control Settings

Enable Bandwidth Control:

Line Type: ADSL Other

Egress Bandwidth: Kbps

Ingress Bandwidth: Kbps

Bandwidth Control

Access Control Rule Management

Enable Internet Access Control

Default Filter Policy

Allow the packets not specified by any access control policy to pass through the Router

Deny the packets not specified by any access control policy to pass through the Router

Access Control

ID Rule Name	Host	Target
<input type="button" value="Add New..."/>	<input type="button" value="Enable All"/>	<input type="button" value="Disable All"/>
<input type="button" value="Move"/>	ID <input type="text"/>	To ID <input type="text"/>

Parental Control

Parental Control Settings

Non-Parental PCs not listed will not be able to access the Internet.

Parental Control: Disable Enable

MAC Address of Parental PC:

MAC Address of Your PC:

Web UI – Port Forwarding

The screenshot displays the Planet Web UI configuration page for port forwarding. On the left is a navigation menu with the following items: Status, Quick Setup, WPS, Network, Wireless, DHCP, Forwarding, - Virtual Servers, - Port Triggering, - DMZ, - UPnP, Security, Parental Control, Access Control, Advanced Routing, Bandwidth Control, IP & MAC Binding, and UPnP. The 'Forwarding' section is expanded, showing four sub-options: - Virtual Servers, - Port Triggering, - DMZ, and - UPnP. These four sub-options are highlighted with a red rectangular box. Red arrows point from this box to four separate configuration windows:

- Add or Modify a Virtual Server Entry:** Service Port: 21 (XX-XX or XX), IP Address: 192.168.1.100, Protocol: TCP, Status: Enabled.
- Add or Modify a Port Triggering Entry:** Common Service Port: FTP, Trigger Port: 47624, Trigger Protocol: TCP, Incoming Ports: 2300-2400,28800-29000, Incoming Protocol: TCP, Status: Enabled, Common Applications: MSN Gaming Zone.
- DMZ:** Current DMZ Status: Enable Disable, DMZ Host IP Address: 192.168.1.100.
- UPnP:** Current UPnP Status: Enabled, .

Web UI – System Tools

network

Wireless

DHCP

Forwarding

Security

Parental Control

Access Control

Advanced Routing

Bandwidth Control

IP & MAC Binding

Dynamic DNS

System Tools

- Time Settings

- Diagnostic

- Firmware Upgrade

- Factory Defaults

- Backup & Restore

- Reboot

- Password

- System Log

- Statistics

Diagnostic Tools

Diagnostic Parameters

Diagnostic Tool: Ping Traceroute

IP Address/ Domain Name:

Ping Count: (1-50)

Ping Packet Size: (4-1472 Bytes)

Ping Timeout: (100-2000 Milliseconds)

Traceroute Max TTL: (1-30)




System Log

Auto Mail Feature: Disabled Mail Settings

Log Type: All Log Level: ALL

Index	Time	Type	Level	Log Content
129	1st day 01:32:47	DHCP	NOTICE	DHCP Service unavailable, recv no OFFER
128	1st day 01:32:45	DHCP	NOTICE	DHCP Send DISCOVER with request ip 0 and unicast flag 1
127	1st day 01:32:43	DHCP	NOTICE	DHCP Send DISCOVER with request ip 0 and unicast flag 1
126	1st day 01:32:39	DHCP	NOTICE	DHCP Send DISCOVER with request ip 0 and unicast flag 0
125	1st day 01:32:37	DHCP	NOTICE	DHCP Send DISCOVER with request ip 0 and unicast flag 0
124	1st day 01:32:35	DHCP	NOTICE	DHCP Send DISCOVER with request ip 0 and unicast flag 0

Comparison - Internal

Model	WNRT-617G	WNRT-625G	WNRT-626G
Features			
Antenna	5dBi Detachable	3dBi fixed	3dBi fixed
Chipset	Atheros AR9285	Ralink RT3052	Ralink RT3050
Interface	10/100TX(1WAN,4LAN) USB 2.0 port for 3G Modem	10/100TX(1WAN,4LAN) USB 2.0 port for 3G Modem	10/100TX(1WAN,4LAN) USB 2.0 port for 3G Modem
WAN	3G Dynamic IP Static IP Telstra Big Pond PPPoE / Russia PPPoE PPTP / Russia PPTP L2TP / Russia L2TP	3G Dynamic IP Static IP Telstra Big Pond PPPoE PPTP L2TP	3G Dynamic IP Static IP Telstra Big Pond PPPoE PPTP L2TP
Maximum NAT Session	5210	3000	3000
Security	64/128/152-bit WEP, WPA/WPA2, WPA-PSK/WPA2-PSK, 802.1x	64/128-bit WEP, WPA/WPA2, WPA-PSK/WPA2-PSK, 802.1x	64/128-bit WEP, WPA/WPA2, WPA-PSK/WPA2-PSK, 802.1x
Wireless Mode	AP & AP-Client WDS, WDS+AP Universal Repeater WISP	AP & AP-Client WDS, WDS+AP WISP	AP & AP-Client WDS, WDS+AP WISP

Comparison - External

Model	PLANET WNRT-617G	D-Link DIR-451	ZyXEL NBG4115
Features			
Antenna	5 dBi Detachable	2 dBi	2 dBi Detachable
Wireless Standard	802.11b/g/n	802.11b/g	802.11b/g/n
Interface	10/100Mbps (1 WAN/4 LAN) USB 2.0 for 3G Modem	10/100Mbps (4 LAN) PCMCIA Card for 3G Modem	10/100Mbps (1 WAN/2 LAN) USB 2.0 for 3G Modem
WAN	3G Dynamic IP Static IP Telstra Big Pond PPPoE / Russia PPPoE PPTP / Russia PPTP L2TP / Russia L2TP	3G only	3G Dynamic IP / Static IP PPPoE PPTP
Security	64/128/152-bit WEP, WPA/WPA2, WPA- PSK/WPA2-PSK, 802.1x	64/128-bit WEP, WPA/WPA2, WPA-PSK/WPA2-PSK	64/128-bit WEP, WPA /WPA2, WPA-PSK/WPA2-PSK
Wireless Mode	AP & AP-Client WDS, WDS+AP Universal Repeater, WISP	AP, Ad-hoc	AP
Virtual Server	Yes	Yes	No
DMZ	Yes	Yes	No

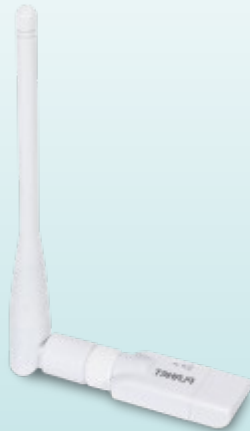
Appendix

◆ **Related Products**

- ✓ **WNL-U554** 150Mbps 11n Wireless USB Adapter
- ✓ **WNL-U554A** 150Mbps 11n Wireless USB Adapter with 3dBi Antenna
- ✓ **WNL-U554M** 150Mbps Micro 11n Wireless USB Adapter
- ✓ **WNL-9501** 802.11n Wireless PCI Express Adapter



WNL-U554



WNL-U554A



WNL-U554M



WNL-9501

ACTIVATING IP POWER

