

# 802.11n Wireless Portable AP/Router

## WNRT-300



# Outline

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



# Product Overview

◆ **Dimensions**

**88 x 62 x 18 mm**

◆ **Weight**

**58g (80g with battery)**

◆ **Power**

**5V DC, 1A**

**Front**



**Top**



**Bottom**



**Li-ion Battery**

**Internal  
2dBi antenna**

**Palm Size  
Portable AP /  
Router**

**Rear**



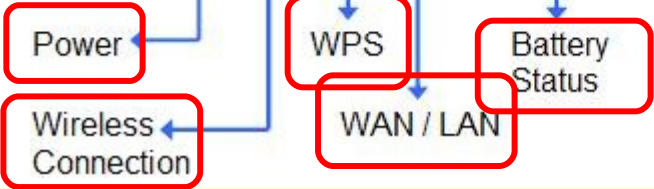
**88mm**

# Product Overview

## ◆ LED Identification



WNRT-300



# Product Overview

## ◆ Front Panel



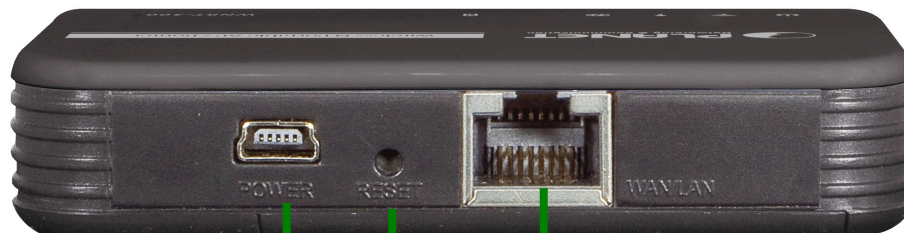
The Switch of 3  
Operation Modes:

- Router
- AP / Extender
- Client

WPS Button

Power Switch

## ◆ Rear Panel

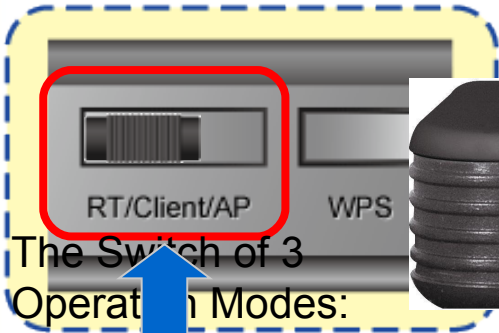


USB Type Power Connector  
5V DC Input

Reset

10/100Mbps WAN/LAN Port

# Product Overview



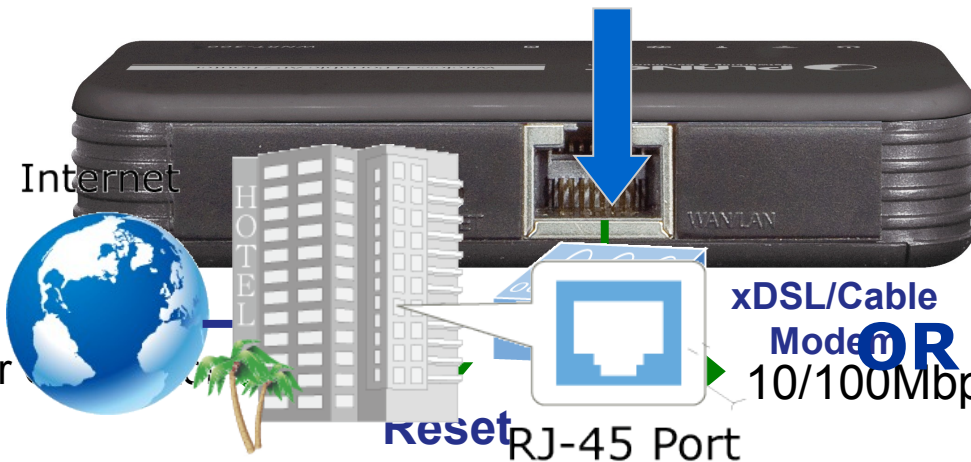
The Switch of 3  
Operation Modes:

- Router
- AP / Extender
- Client



Port:  
LAN

Power Switch



USB Type Power  
5V DC Input

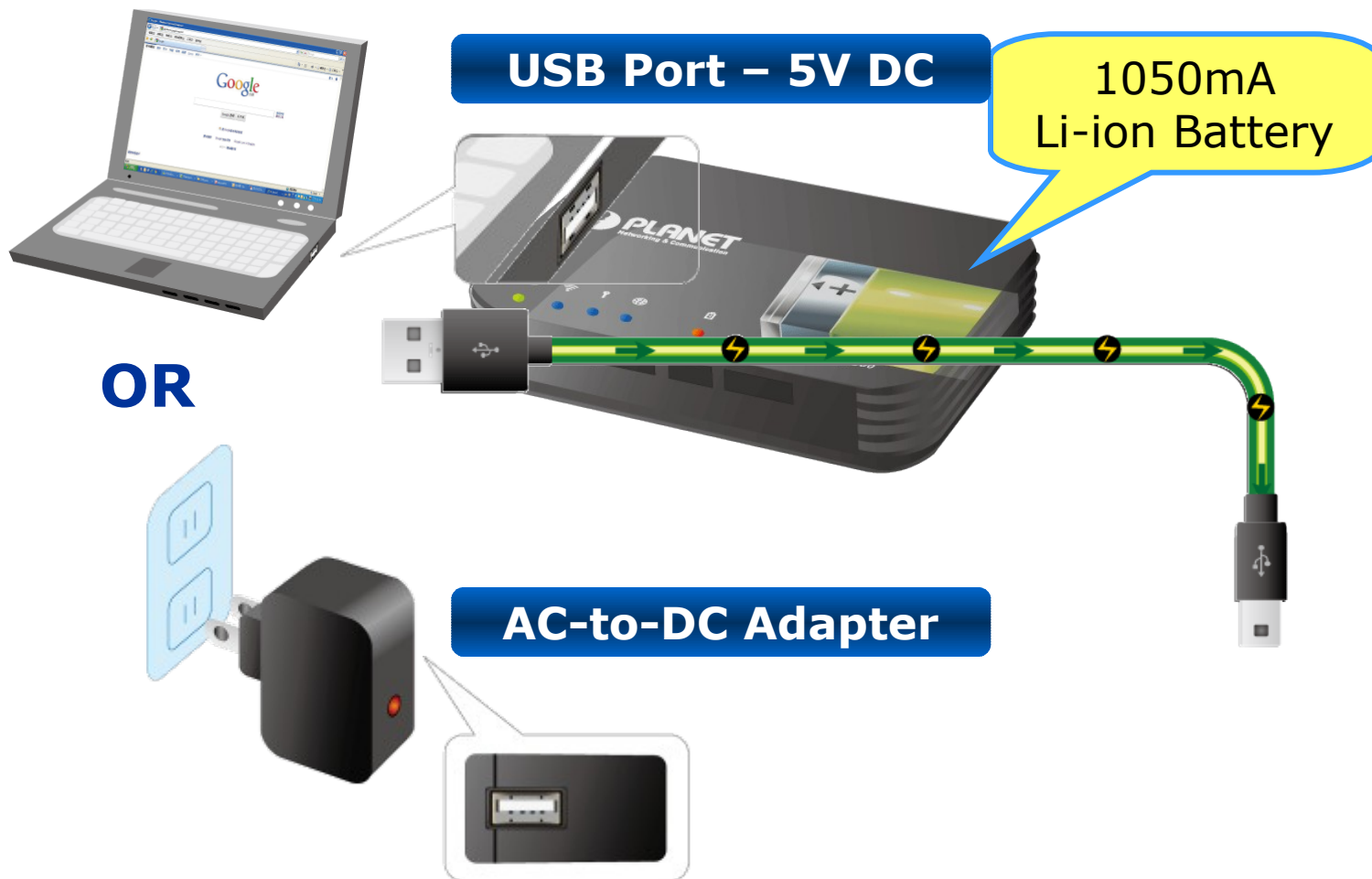
reset

RJ-45 Port

10/100Mbps WAN/LAN Port  
Gaming Console

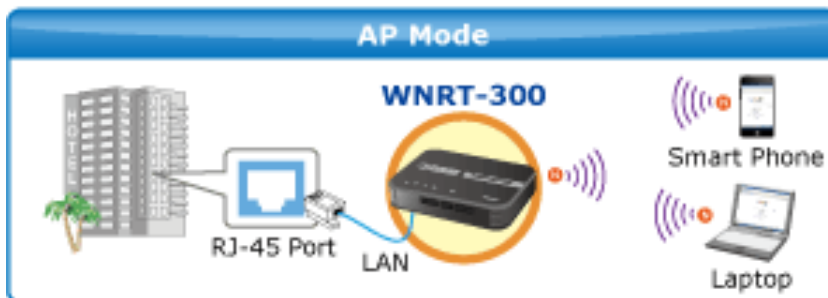
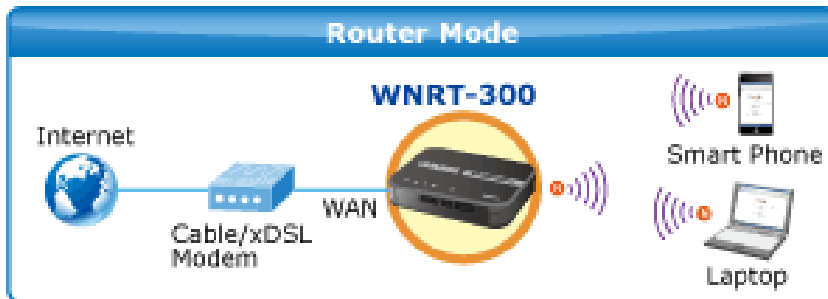
# Product Overview

## ◆ Power Input for WNRT-300



# Product Applications

## ◆ Various applications in your network environment







# Product Features

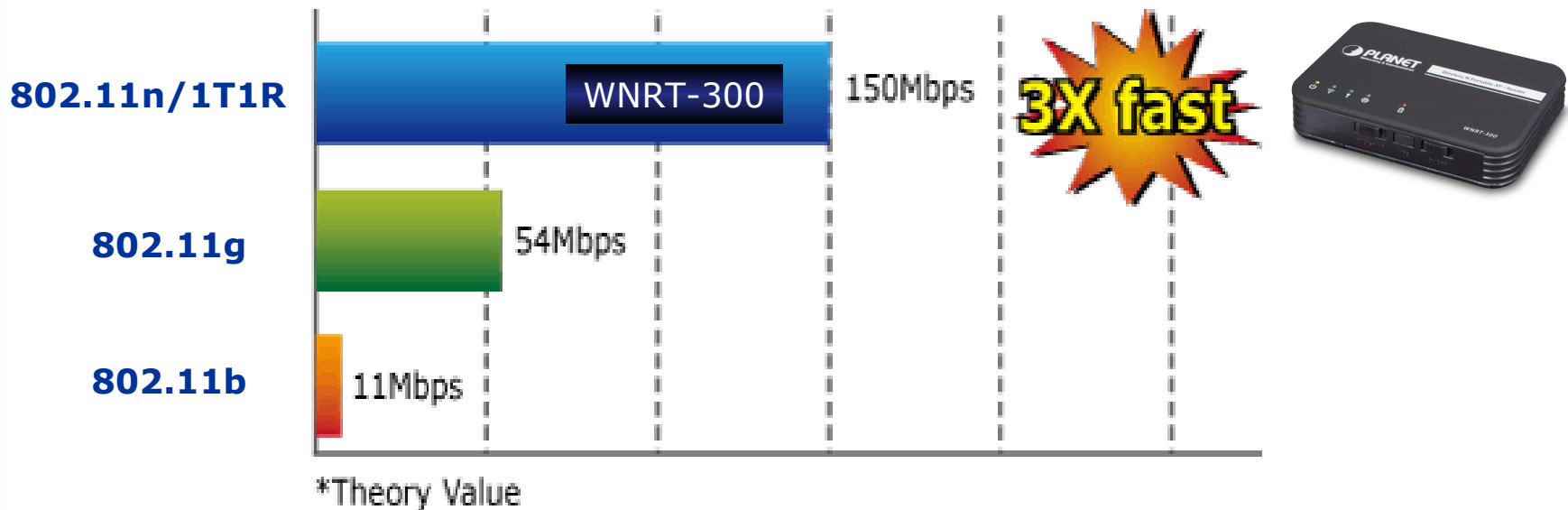
## ◆ Hardware

- ✓ **Compact and stylish design**
- ✓ **Built-in Nokia compatible Li-ion Battery**
  - **~5hrs** operating time
- ✓ **802.11n wireless, internal 2dBi antenna**
- ✓ **Hardware **Operation mode switch****
- ✓ **Zero configured **WPS** button**

# 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

- ◆ **Wireless Network Range Extender**
  - ✓ **Supports WMM, QoS, IAPP**
  
- ◆ **Fixed-network Broadband Router**
  - ✓ **WAN types**
    - Dynamic IP
    - Static IP
    - PPPoE
    - L2TP
    - PPTP
  
  - ✓ **Supports Dynamic & Static Routing, IP/MAC-Based Bandwidth Control, 802.1d STP, IGMP Proxy**

# Product Features

## ◆ **Secure Network Connection**

- ✓ **Supports Wi-Fi Protected Setup (WPS)**
- ✓ **Advanced security:**
  - 64/128-bit WEP
  - WPA-Enterprise / WPA2-Enterprise
  - WPA-PSK / WPA2-PSK (TKIP/AES encryption)
  - 802.1x Authentication
- ✓ **Supports NAT firewall with Port/IP/MAC/URL Filtering, DoS attack protection**
- ✓ **Supports 802.1Q VLAN**

## Product Features – WPS Easy Setup

### ◆ WPS (Wi-Fi Protected Setup)

– Quick and Easy Wireless Connection

#### ✓ STEP.1

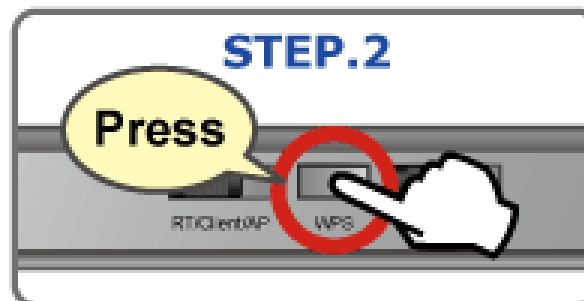
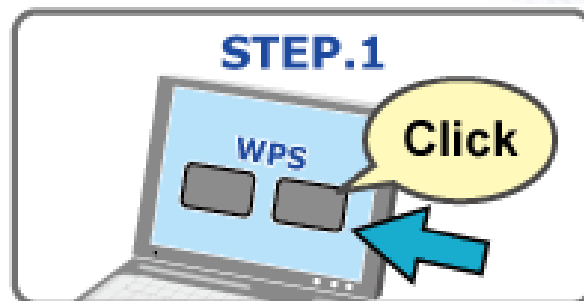
In the Wireless Client, click the WPS Software Button from the Web UI

#### ✓ 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 SSID + VLAN

SSID: Internet  
VLAN: VID=1



SSID: VoIP  
VLAN: VID=4



VoIP  
Phone



Gaming Console

SSID: Gaming  
VLAN: VID=2



Tablet

Audio Stream

SSID: Streaming  
VLAN: VID=3

# Product Features

## ◆ Multiple Wireless Network Technologies for Greater Access

### ✓ Multiple Operation Modes:

- Router
- AP
- Client

### ✓ Multiple Wireless Modes:

- AP
- WDS (Bridge)
- WDS + AP (Repeater)
- Universal Repeater
- Client

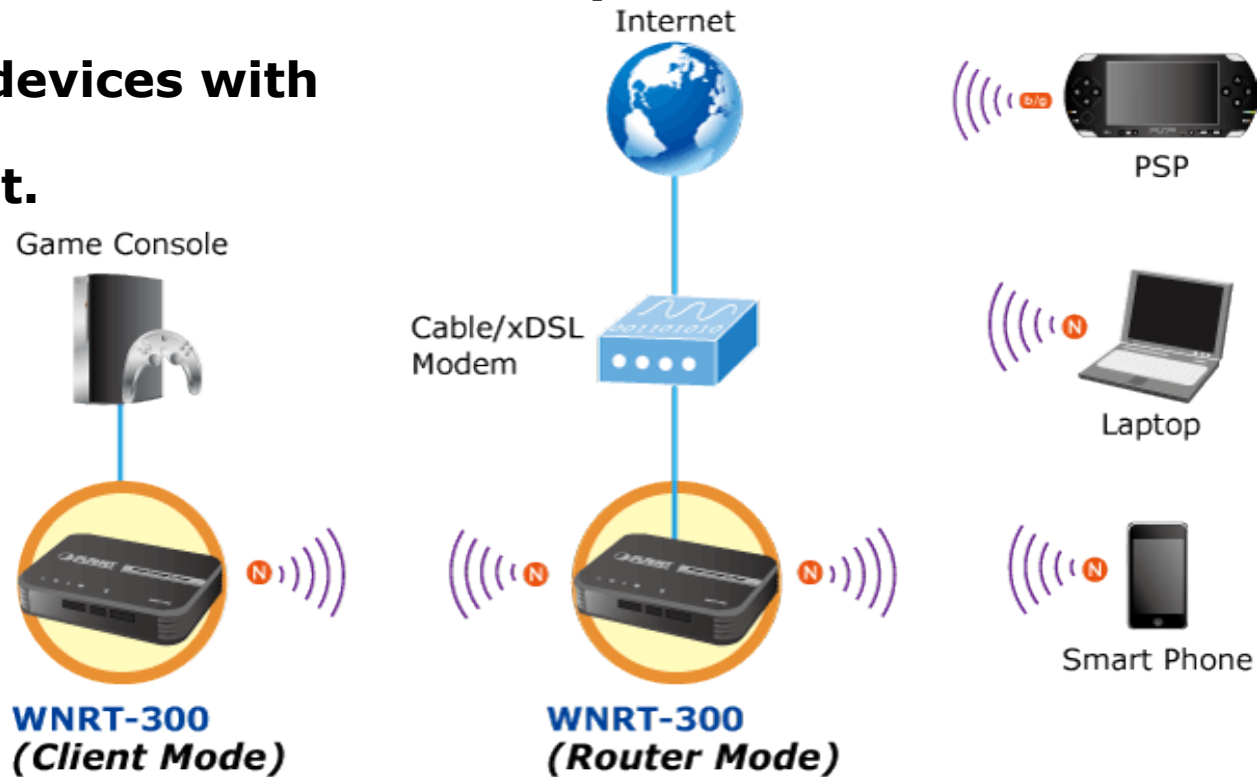
# Product Features

- ◆ **Advanced Networking function for Specific Application**
  - ✓ **Supports multiple sessions IPsec, L2TP, PPTP, and IPv6 VPN pass-through**
  - ✓ **Supports wireless schedule function.**
  - ✓ **Supports Port Forwarding, DMZ, UPnP, and Dynamic DNS.**
  
- ◆ **Easy Installation & Management**
  - ✓ **System status monitoring includes DHCP Clients, System Log**



# Product Applications

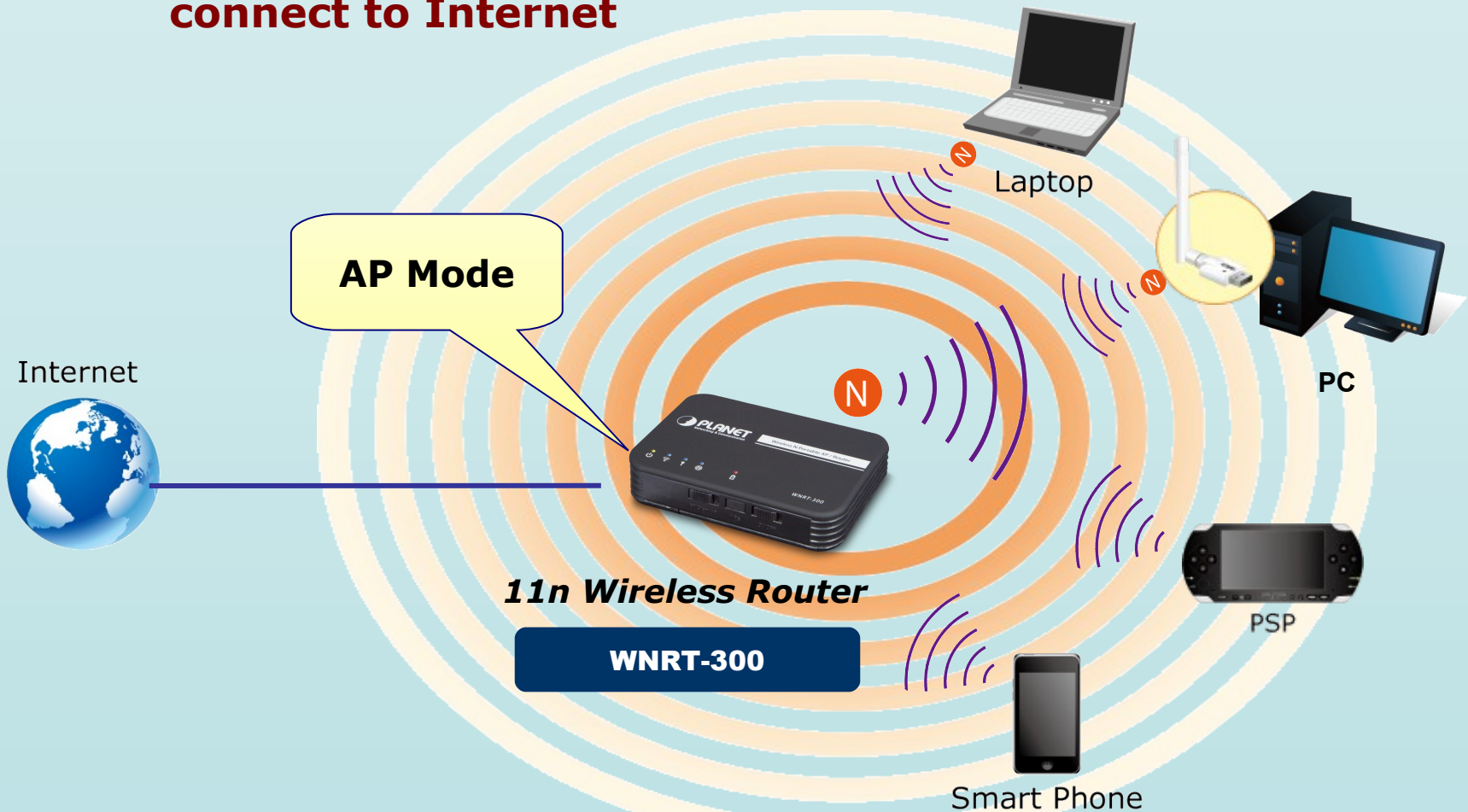
- ◆ **Various application in your network environment**
  - ✓ Via **Router/AP/Client** Mode, you can easily connect your laptop, iPhone, iPad, and any other Wi-Fi supported devices with the Internet.



# Operation Mode

## ◆ Access Point

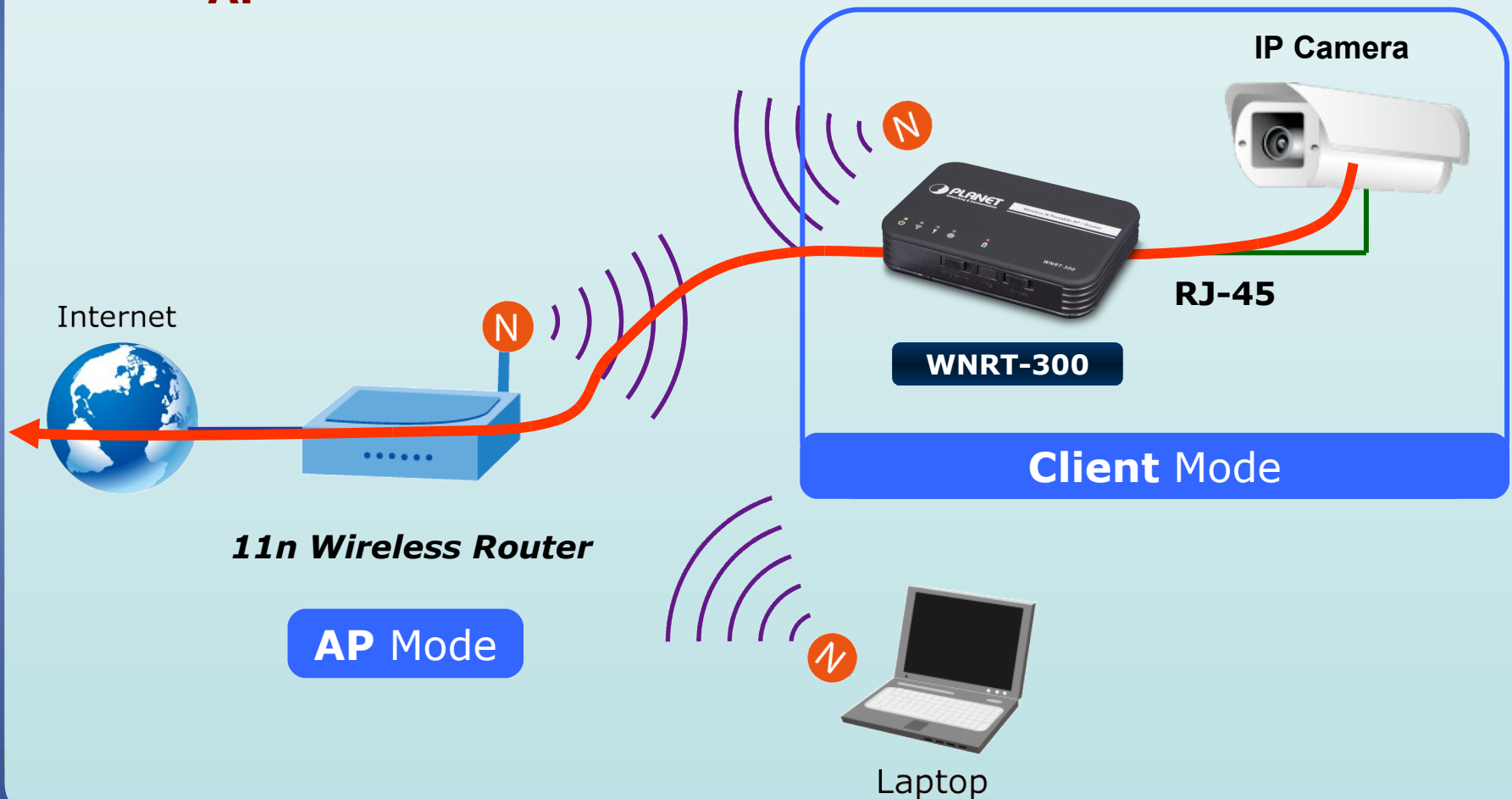
- ✓ Acts as a central hub for wired / wireless LAN and connect to Internet



# Operation Mode

## ◆ Client

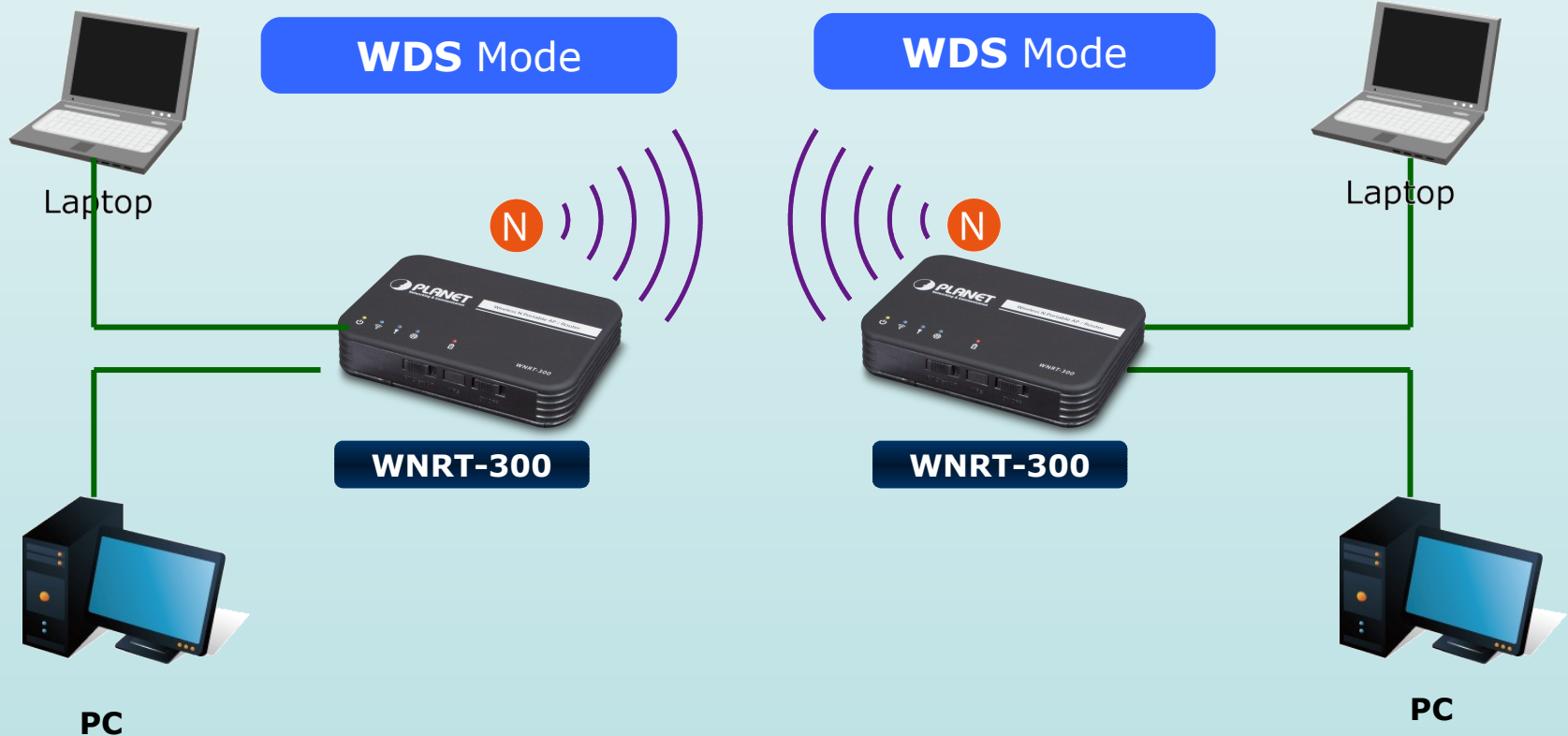
- ✓ Acts as a wireless client connecting with the remote AP



# Operation Mode

## ◆ WDS Mode (Bridge)

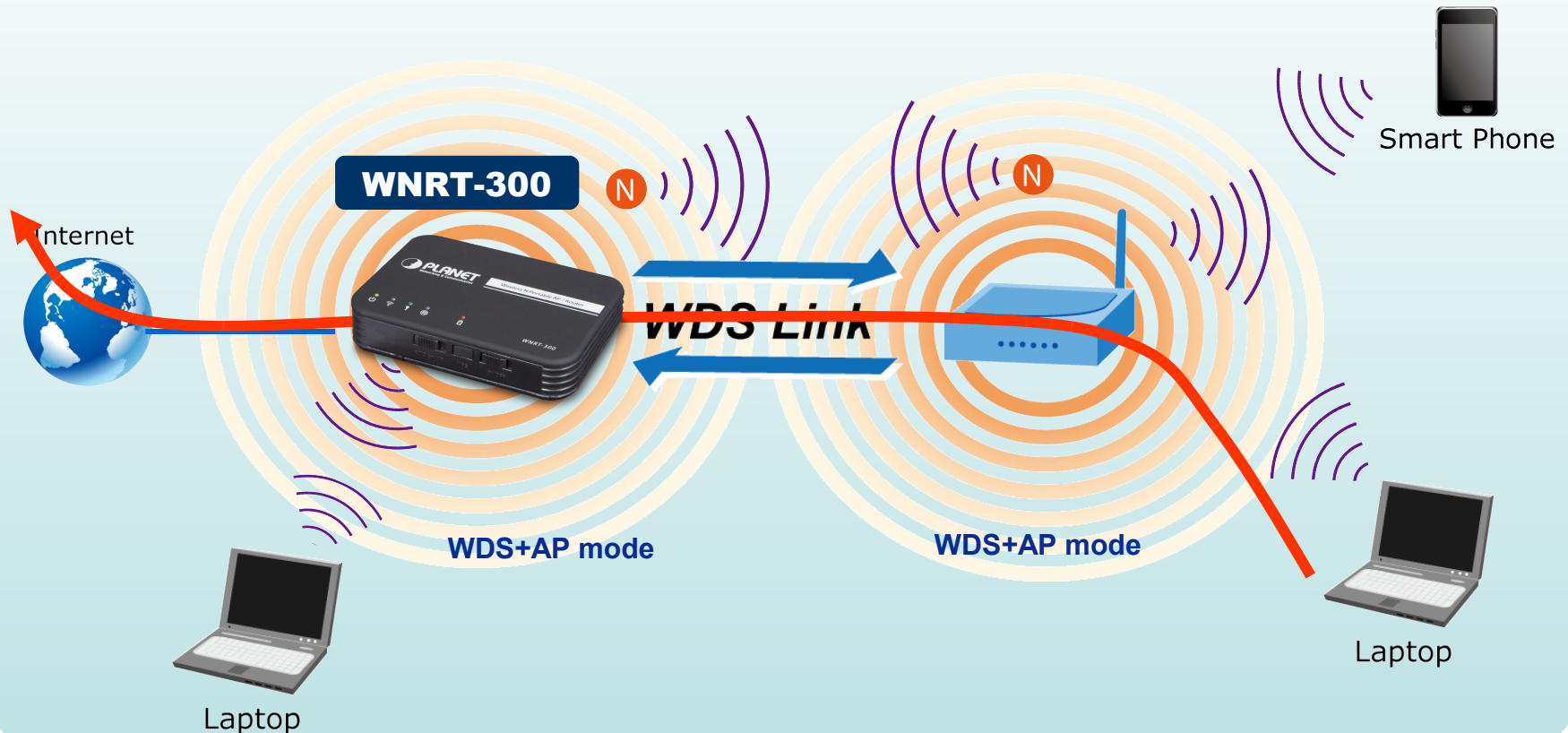
- ✓ **Two APs in two remote locations connect to each other wirelessly**



# Operation Mode

## ◆ WDS + AP Mode (Repeater)

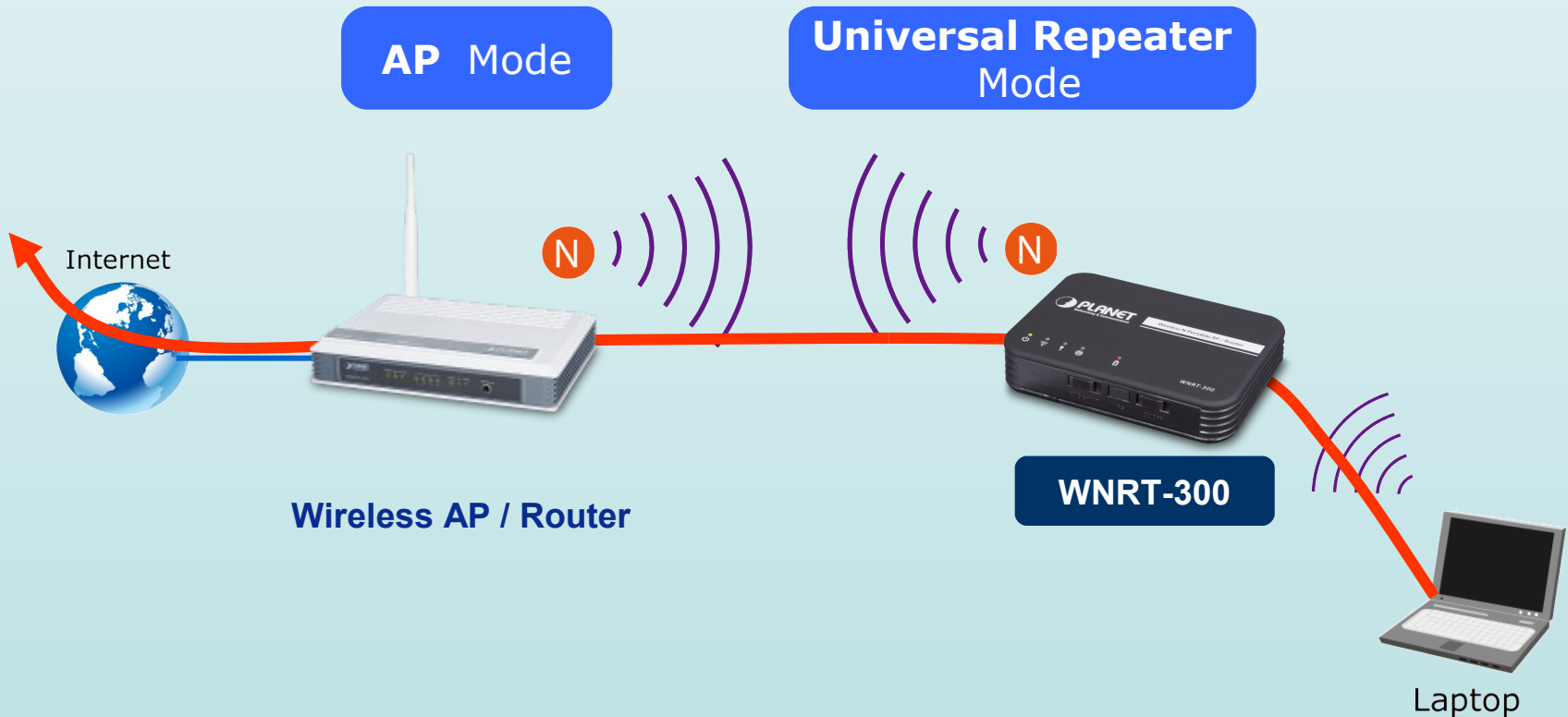
- ✓ Bridge two APs and provides access for wireless clients at the same time



# Operation Mode

## ◆ Universal Repeater Mode

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



# Web UI - Main



**PLANET** Networking & Communication WNRT-300  
802.11n Wireless Portable Broadband Router

Site contents:

- ▶ Setup Wizard
- ▶ Operation Mode
- 📁 Wireless
- 📁 TCP/IP Settings
- 📁 Firewall
- ▶ QoS
- ▶ Route Setup
- 📁 Management
- ▶ Logout

## Setup Wizard

The setup wizard will guide you to configure access point for first time. Please follow the setup wizard step by step.

**Welcome to Setup Wizard.**

The Wizard will guide you the through following steps. Begin by clicking on Next.

1. WAN Interface Setup

[Next >>](#)

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**Main Menu of Every Function**

**The Corresponding Screen after Clicking Each Function**

# Web UI – Operation Mode



- Site contents:
- ▶ Setup Wizard
  - ▶ **Operation Mode**
  - ▶ Wireless
  - ▶ TCP/IP Settings
  - ▶ Firewall
  - ▶ QoS
  - ▶ Route Setup
  - ▶ Management
  - ▶ Logout

## Operation Mode

You can setup different modes to LAN and WLAN interface for NAT and bridging function.

- Router:** When the Mode Selection Switch on the bottom of the Device is set to Router, the unit is in Router Mode. In this mode, the device is supposed to connect to internet via ADSL/Cable Modem. The NAT is enabled and all wireless client share the same IP to ISP through WAN port.
- AP:** When the Mode Selection Switch on the front of the Device is set to AP, the unit is in Access Point Mode. In this mode, all ethernet ports and wireless interface are bridged together and NAT function is disabled. All the WAN related function and firewall are not supported.
- Client:** When the Mode Selection Switch on the bottom of the Device is set to Client, the unit is in Client Mode.

Apply Change

Reset

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**Shifting The Hardware  
Switch to Change The  
Operation Mode**



# Web UI - Wireless



- Site contents:
- ▶ Setup Wizard
  - ▶ Operation Mode
  - ▶ **Wireless**
    - ▶ Basic Settings
    - ▶ Advanced Settings
    - ▶ Security
    - ▶ Access Control
    - ▶ WDS settings
    - ▶ Site Survey
    - ▶ WPS
    - ▶ Schedule
  - ▶ TCP/IP Settings
  - ▶ Firewall
  - ▶ QoS
  - ▶ Route Setup
  - ▶ Management
  - ▶ Logout

## Wireless Basic Settings

This page is used to configure the parameters for wireless LAN clients which may connect to your Access Point. Here you may change wireless encryption settings as well as wireless network parameters.

Disable Wireless LAN Interface

Band: 2.4 GHz (B+G+N) ▼

Mode: AP ▼

Network Type: AP ▼ WDS ▼ AP+WDS ▼

SSID:

Channel Width: 40MHz ▼

Control Sideband: Upper ▼

Channel Number: 11 ▼

Broadcast SSID: Enabled ▼

WMM: Enabled ▼

Data Rate: Auto ▼

Associated Clients:

Enable Mac Clone (Single Ethernet Client)

Enable Universal Repeater Mode (Acting as AP and client simultaneously)

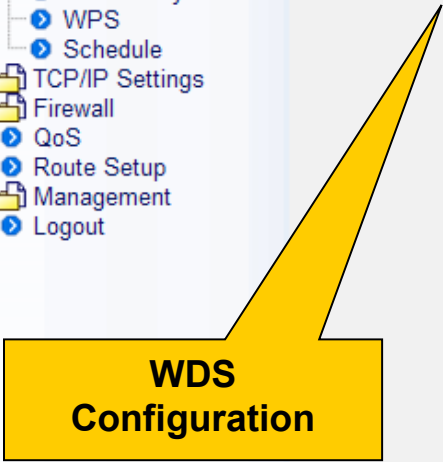
**Various Wireless Modes**

**Universal Repeater**

# Web UI - WDS



- Site contents:
- ▶ Setup Wizard
  - ▶ Operation Mode
  - ▶ **Wireless**
    - ▶ Basic Settings
    - ▶ Advanced Settings
    - ▶ Security
    - ▶ Access Control
    - ▶ **WDS settings**
    - ▶ Site Survey
    - ▶ WPS
    - ▶ Schedule
  - ▶ TCP/IP Settings
  - ▶ Firewall
  - ▶ QoS
  - ▶ Route Setup
  - ▶ Management
  - ▶ Logout



## WDS Settings

Wireless Distribution System uses wireless media to communicate with other APs, like the Ethernet does. To do this, you must set these APs in the same channel and set MAC address of other APs which you want to communicate with in the table and then enable the WDS.

Enable WDS

MAC Address:

Data Rate:  ▼

Comment:

### Current WDS AP List:

MAC Address	Tx Rate (Mbps)	Comment	Select
00:30:4f:89:8f:6a	Auto		<input type="checkbox"/>

# Web UI – WPS



**PLANET** Networking & Communication WNRT-300  
802.11n Wireless Portable Broadband Router

Site contents:

- ▶ Setup Wizard
- ▶ Operation Mode
- ▶ Wireless
  - ▶ Basic Settings
  - ▶ Advanced Settings
  - ▶ Security
  - ▶ Access Control
  - ▶ WDS settings
  - ▶ Site Survey
  - ▶ **WPS**
  - ▶ Schedule
- ▶ TCP/IP Settings
- ▶ Firewall
- ▶ QoS
- ▶ Route Setup
- ▶ Management
- ▶ Logout

## Wi-Fi Protected Setup

This page allows you to change the setting for WPS (Wi-Fi Protected Setup). Using this feature could let your wireless client automatically synchronize its setting and connect to the Access Point in a minute without any hassle.

Disable WPS

WPS Status:  Configured  UnConfigured

**Self-PIN Number:** 19305240

**Push Button Configuration:**

**Client PIN Number:**

Current Key Info:

Authentication	Encryp	Key
Open	None	N/A

**Method 1:**  
Press “Start PBC” Button of both WNRT (S/W or H/W) and wireless client device minutes.

**Method 2:**  
As a registrar, enter the PIN code of the wireless client device; As a enrollee, use the Self-PIN number to fill into the wireless client device.

# Web UI – Wireless Security

- Site contents:
- ▶ Setup Wizard
  - ▶ Operation Mode
  - ▶ Wireless
    - ▶ Basic Settings
    - ▶ Advanced Settings
    - ▶ **Security**
    - ▶ Access Control
    - ▶ WDS settings
    - ▶ Site Survey
    - ▶ WPS
    - ▶ Schedule
  - ▶ TCP/IP Settings
  - ▶ Firewall
    - ▶ Port Filtering
    - ▶ IP Filtering
    - ▶ MAC Filtering
    - ▶ Port Forwarding
    - ▶ URL Filtering
    - ▶ DMZ
  - ▶ QoS
  - ▶ Route Setup
  - ▶ Management
  - ▶ Logout

## Wireless Security Setup

This page allows you setup the wireless security. Turn on WEP or WPA by using Encryption Keys could prevent any unauthorized access to your wireless network.

Select SSID: Root AP - 300300

Encryption:

802.1x Authentication:

Authentication:  Shared Key  Auto

Key Length:

Key Format:

Encryption Key:

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**Supports many authentication and encryption methods**

# Web UI – Wireless Schedule



- Site contents:
- ▶ Setup Wizard
  - ▶ Operation Mode
  - ▶ Wireless
    - ▶ Basic Settings
    - ▶ Advanced Settings
    - ▶ Security
    - ▶ Access Control
    - ▶ WDS settings
    - ▶ Site Survey
    - ▶ WPS
    - ▶ **Schedule**
  - ▶ TCP/IP Settings
  - ▶ Firewall
  - ▶ QoS
  - ▶ Route Setup
  - ▶ Management
  - ▶ Logout

## Wireless Schedule

This page allows you setup the wireless schedule rule. Please do not forget to configure system time before enable this feature.

**Enable Wireless Schedule**

Days :

Everyday  Sun  Mon  Tue  Wed  Thu  Fri  Sat

Time :

24 Hours  From 09 : 00 To 18 : 00

Apply Changes

Reset

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**Wireless Schedule  
Function**

# Web UI – Access Control

## QoS

Entries in prioritized

- Enable
- Auto

Manual U

- Auto

Manual D

QoS Rule

Address T

Local IP A

MAC Add

Mode:

Uplink Ba

Downlink Bandwidth

Comment:

Apply Changes

## Wireless Access Control

If you choo  
control list  
clients on t

Wireless A

MAC Add

Apply

Current Ac

IP Address

Subnet Ma

Gateway:

Metric:

Interface:

Apply Changes

Reset

## Routing Setup

This page is

- Enable

NAT:

Transmit:

Receive:

- Enable

IP Address

Subnet Ma

Gateway:

Metric:

Interface:

Apply Changes

Reset

## Wireless Schedule

This page allows you setup the wireless schedule rule. Please do not forget to configure system time before enable this feature.

- Enable Wireless Schedule

Days :

- Everyday
- Sun
- Mon
- Tue
- Wed
- Thu
- Fri
- Sat

Time :

- 24 Hours
- From 09 : 00 To 18 : 00

Apply Changes

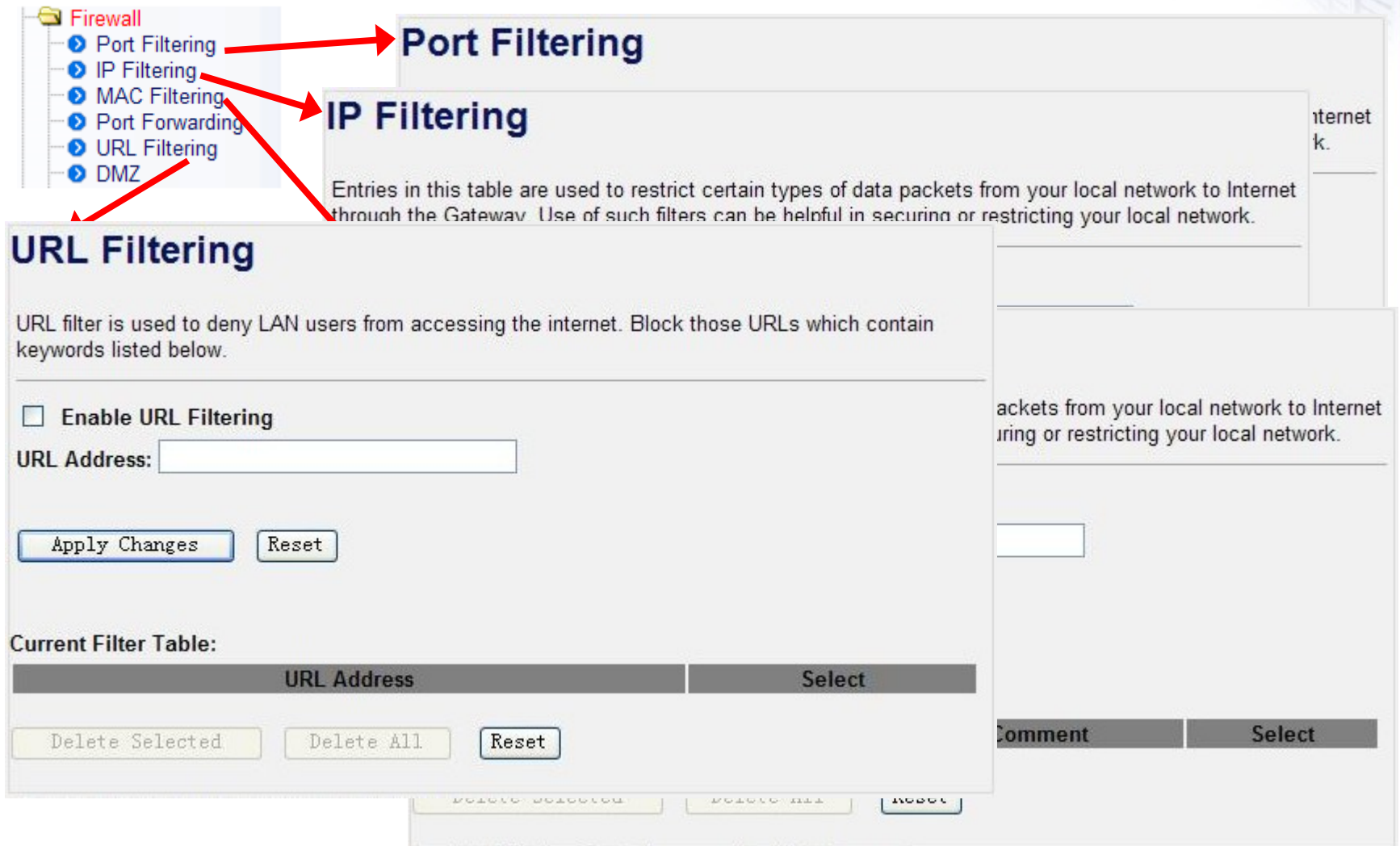
Reset

Apply Changes

Reset

Show Route Table

# Web UI – Firewall



**Firewall**

- Port Filtering
- IP Filtering
- MAC Filtering
- Port Forwarding
- URL Filtering
- DMZ

## Port Filtering

## IP Filtering

Entries in this table are used to restrict certain types of data packets from your local network to Internet through the Gateway. Use of such filters can be helpful in securing or restricting your local network.

## URL Filtering

URL filter is used to deny LAN users from accessing the internet. Block those URLs which contain keywords listed below.

Enable URL Filtering

URL Address:

**Current Filter Table:**

URL Address	Select
<input type="button" value="Delete Selected"/>	<input type="button" value="Delete All"/> <input type="button" value="Reset"/>

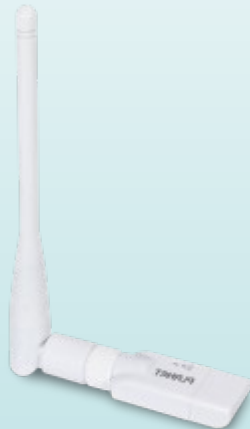
# Appendix

## ◆ 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

