

# WR300NR

## Installation Guide

REV.1.0

## **Introduction:**

The **WR300NR** has the wireless speed and range to power a complex set of networking applications creating a highly efficient mobile office or entertainment network.

## **Main Features**

- Complies with IEEE 802.11n, IEEE 802.11g, IEEE 802.11b standards
- Supports Router, Client, Bridge, Repeater, AP mode
- QoS function assures the quality of VoIP and multimedia streaming
- Wireless N speed up to 300Mbps and Backward compatible with 802.11b/g products
- Compact and portable ideal for home or travel use
- Supports WEP, WPA/WPA2, WPA-PSK/WPA2-PSK encryptions

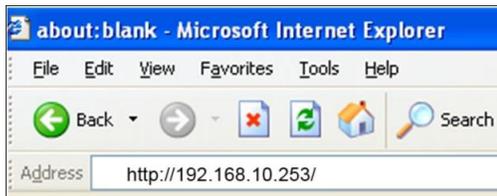
## **Package Contents**

Before you starting to use this router, please check if there's anything missing in the package and contact the place of purchase to claim for missing items:

- 1 x WR300NR Repeater
- 1 x Quick Installation Guide
- 1 x RJ-45 Networking Cable

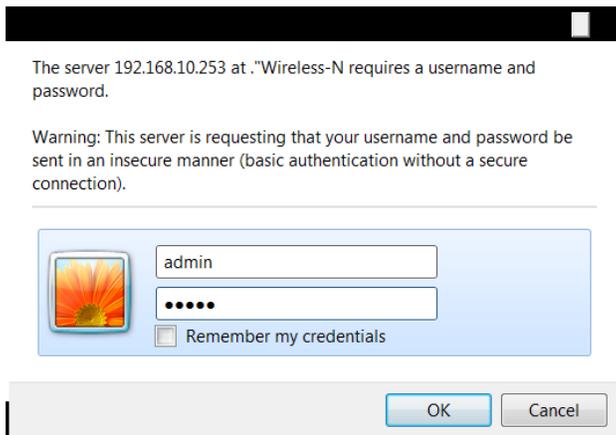
## Getting Started

- Step 1: Plug the WR300NR into a wall socket within 3 feet of the computer you will be using to configure the WR300NR.
- Step 2: Connect one end of the provided Ethernet cable to the LAN port of the WR300NR. Connect the other end of the Ethernet cable to the Ethernet port of the computer you are using to configure the WR300NR.
- Step 3: Open your browser and type <http://192.168.10.253> in the browser's address box. This number is the default IP address for the WR300NR device.



- Step 4: The login screen below will appear. Enter the "User Name" and "Password" and click "OK" to login.

Note: The default User name is "admin" and the Password is "admin".

A screenshot of a login dialog box. At the top, a black bar contains a white cursor. Below it, text reads: "The server 192.168.10.253 at .Wireless-N requires a username and password." A warning message follows: "Warning: This server is requesting that your username and password be sent in an insecure manner (basic authentication without a secure connection)." The login form has a blue header with a sunflower icon. It contains two input fields: the first is labeled "admin" and the second is masked with dots. A checkbox labeled "Remember my credentials" is below the password field. At the bottom, there are "OK" and "Cancel" buttons.

After you login, you will see the following screen below:

**DIAMOND**  
MULTIMEDIA

WIRELESS-N MINI ROUTER  
802.11 B/G/N

Current Mode: Router

**System**

Uptime	Oday:0h:9m:13s
Firmware Version	MR2.32.11.0104
Build Time	Fri Jan 4 14:29:39 CST 2013

**Wireless Network**

Mode	AP
Band	2.4 GHz (B+G+N)
SSID	Wireless-N
Channel Number	13
Encryption	Disabled
BSSID	80:3f:5d:80:86:b2
Associated Clients	1

**Lan Status**

Attain IP Protocol	Fixed IP
IP Address	192.168.10.253
Subnet Mask	255.255.255.0
Default Gateway	192.168.10.253
DHCP Server	Enable
MAC Address	80:3f:5d:80:86:b2

**Wan Status**

Attain IP Protocol	Getting IP from DHCP server...
IP Address	0.0.0.0
Subnet Mask	0.0.0.0
Default Gateway	0.0.0.0
MAC Address	80:3f:5d:80:86:b5

The WR300NR supports 4 different modes:

1. Repeater/extender
2. Wireless Access Point
3. Wireless to Ethernet Bridge
4. Router

Step 5: Click on wizard as shown below:

**DIAMOND** MULTIMEDIA WIRELESS-N MINI ROUTER 802.11 B/G/N

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Choose the mode for the WR300NR that applies to you and proceed to the configuration instructions for that mode you have chosen to use below:

**For Repeater Mode follow the steps below:**

1. Click on Repeater as shown below and then click "Next"

Wizard

Operation Mode

AP : Access Point mode

Router : Wireless router mode

Repeater : Repeater mode

Bridge : Bridge Mode

Client : Client Mode

User-PC Repeater Wifi AP /Router Internet

In this mode, the wired interface as the LAN port to use, the computer can connect to wired or wireless router. At this point the router's SSID to connect to the front of the relay router's SSID. To avoid conflict and front-end network equipment DHCP, the DHCP server in this mode off by default, if you want to log into the router management page, you need to manually set the computer's IP address.

Next

A list of available wireless networks will be displayed as shown below:

2. Click the select button for your existing wireless network. This will be the wireless network the WR300NR will repeat and extend the wireless signal.

## Wizard -- Repeater mode

Repeater mode

Refresh

SSID	BSSID	Channel	Encrypt	Signal	Select
DUKE	00:26:75:36:be:97	6 B+G+N	WPA-PSK/WPA2-PSK	100%	Select
TRENDnet2	00:03:7f:bf:5b:79	6 B+G+N	WPA2-PSK	100%	Select
TECH05-PC-20990	24:3c:20:05:9c:f3	6 B+G+N	WPA2-PSK	85%	Select
WGR7000	00:26:75:62:fc:b6	6 B+G+N	WPA2-PSK	75%	Select
CableWiFi	50:a7:33:17:91:08	9 G+N	NO	42.5%	Select
TWCWiFi	50:a7:33:57:91:08	9 G+N	NO	42.5%	Select
WiFiRSU_bdc22	20:10:7a:74:57:78	1 B+G+N	WPA2-PSK	25%	Select

Back Save&Reboot

3. Enter the passphrase or security key for your home wireless network.

NOTE: This key or passphrase to be entered is the same key you have always been using for your existing wireless connection.

## Wizard -- Repeater mode

Repeater mode

Refresh

SSID

Key  8  Unmask

Back **Save&Reboot**

The target network's SSID will be automatically filled into the wireless setting figure. Select the Password or Key phrase. Then click **Save&Reboot** to reboot the WR300NR in order for the settings to be saved.

## Bridge Mode:

### Wizard

Operation Mode

AP : Access Point mode

Router : Wireless router mode

Repeater : Repeater mode

Bridge : Bridge Mode

Client : Client Mode



In this mode, the wired interface as the LAN port to use, the computer can connect to wired or wireless router. To avoid conflict and front-end network equipment DHCP, the DHCP server in this mode off by default, if you want to log into the router management page, you need to manually set the computer's IP address.

Next

1. Select Bridge mode and then click "Next"

### Wizard -- Bridge Mode

Bridge Mode

SSID

Security Mode

Refresh

SSID	BSSID	Channel	Encrypt	Signal	Select
DUKE	00:26:75:36:be:97	6 B+G+N	WPA-PSK/WPA2-PSK	100%	Select
TRENDnet2	00:03:7f:bf:5b:79	6 B+G+N	WPA2-PSK	100%	Select
WGR7000	00:26:75:62:fc:b6	6 B+G+N	WPA2-PSK	100%	Select
TWCWiFi	50:a7:33:57:91:08	2 G+N	NO	50%	Select
CableWiFi	50:a7:33:17:91:08	2 G+N	NO	47.5%	Select
hpsetup	56:e7:d1:fc:16:68	6 B	NO	10%	Select

Back Save&Reboot

2. Select the **SSID** of the Access Point you want to access and click **Select**.

Wizard -- Bridge Mode

Bridge Mode

SSID Wireless-N

Security Mode Disable

Refresh

SSID DUKE

Key   Unmask

Back Save&Reboot

Note: The target network's SSID will be automatically filled into the wireless setting figure. Select the Password or Key phrase. Then click **Save & Reboot**.

## Client Mode:

### Wizard

Operation Mode

AP : Access Point mode

Router : Wireless router mode

Repeater : Repeater mode

Bridge : Bridge Mode

Client : Client Mode



In this mode, the wired interface as the LAN port to use, computers can only connect to the router via cable. To avoid conflict and front-end network equipment DHCP, the DHCP server in this mode off by default, if you want to log into the router management page, you need to manually set the computer's IP address.

Next

1. Select "Client Mode" and then click "Next"

### Wizard -- Client Mode

Client Mode

Refresh

SSID	BSSID	Channel	Encrypt	Signal	Select
DUKE	00:26:75:36:be:97	6 B+G+N	WPA-PSK/WPA2-PSK	100%	Select
TRENDnet2	00:03:7f:bf:5b:79	6 B+G+N	WPA2-PSK	100%	Select
WGR7000	00:26:75:62:fc:b6	6 B+G+N	WPA2-PSK	85%	Select
CableWiFi	50:a7:33:17:91:08	2 G+N	NO	40%	Select
WiFIRSU_bdc22	20:10:7a:74:57:78	1 B+G+N	WPA2-PSK	30%	Select
hpsetup	56:e7:d1:fc:16:68	6 B+G	NO	0%	Select

Back Save&Reboot

2. Select the **SSID** of your wireless Access Point or Wireless Network you want to bridge and click **Select**.

### Wizard -- Client Mode

Client Mode

Refresh

SSID

Key  8  Unmask

Back Save&Reboot

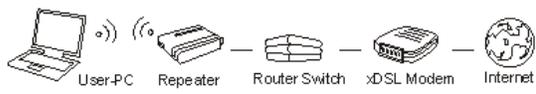
3. The target network's SSID will be automatically filled into the wireless setting figure. Select the Password or Key phrase. Then click **Save&Reboot**.

## AP Mode:

### Wizard

Operation Mode

AP : Access Point mode



In this mode, the wired interface as the LAN port to user, the computer can connect to wired or wireless router. To avoid conflict and front-end network equipment DHCP, the DHCP server in this mode off by default, if you want to log into the router management page, you need to manually set the computer's IP address.

Router : Wireless router mode

Repeater : Repeater mode

Bridge : Bridge Mode

Client : Client Mode

Next

1. Select AP (Access Point Mode) and click Next.

### Wizard--Access Point mode

Access Point mode

SSID

Channel

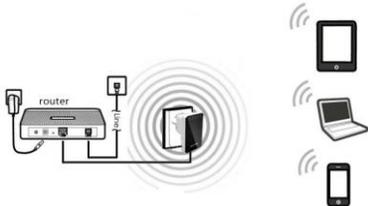
Security Mode

Key  8

Unmask

Back Save&Reboot

2. It's recommended that you rename the **SSID** to a name of your choice. Select a **Security Mode** and enter a **Key**. Click **Save&Reboot**.
3. Now connect one end of the Ethernet cable to the LAN port of the WR300NR. Then connect the other end of the Ethernet cable to your routers Ethernet port.



**Router Mode:**

Wizard -- Wireless router mode

Wireless router mode

Automatically from the network service provider to obtain an IP address (dynamic IP)

ADSL Dial-up (PPPoE)

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SSID

Channel

Security Mode

1. Set the wireless parameter. It's recommended that you rename the **SSID**, choose a **Security Mode** and enter a **Key**.
2. Choose your WAN Connection Type.

If **Dynamic IP** is selected, the Router gets the IP address automatically from the DHCP server or the ISP. No configuration should be set and you can go on with the wireless configuration.

If **PPPoE** is selected, please enter the **User Name** and **Password** your internet service provider has issued. These fields are case-sensitive.

Wizard -- Wireless router mode

Wireless router mode

Internet service providers offer a fixed IP address (static IP)

Automatically obtain an IP address (dynamic IP)

ADSL Dial-up (PPPoE)

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SSID

Channel

Security Mode

3. Click **Save & Reboot**.

## Connecting the WR300NR as a router to your DSL or Cable modem

You will need broadband Internet access (ADSL or Cable Modem)

*Consult with your ADSL or Cable Modem provider for proper installation of the modem.*

1. Connect the ADSL or Cable modem to the WR300NR to the port labeled WAN:
2. Plug the power plug of the Router in electrical wall socket.

