Wireless Extender&Router

WR300NR

Quick Installation Guide(Q.I.G.)

REV.1.0

Introduction:

The Wireless Extender&Router is a combined wired/wireless network connection device designed specifically for small business, office, and home office networking requirements. It complies with the IEEE 802.11n (Draft 2.0) standard. It adopts MIMO as well as SST technologies. It also works well with other 11b/g and 11n protocol wireless products. Create instant WiFi hotspots at any location where you have Internet connection .

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, powerful wireless signal as well .
- Travel size design, 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 your dealer of purchase to claim for missing items:

- 1 x Wireless N Mini Router •
- 1 x Quick Installation Guide
- 1 x RJ-45 Networking Cable •

Getting Started

Setting up a Wireless Infrastructure Network



For a typical wireless setup at home (as shown above), Please do the following:

- 1. You will need broadband Internet access (a ADSL, Cable Modem line
- into your home or office). Consult with your ADSL or Cable Modem provider for proper 2. installation of the modem.
- 3. Connect the ADSL or Cable modem to the Wireless N Mini Router. Plug the power plug of the Router in electrical wall socket.
- 4. Adding computers to the Wireless N Mini Router.

IMPORTANT NOTE

You can reset your Wireless-N Router to default setting by press the 'RESET' button on the back side of the Router.

You can use this solution if you forget your password.

Adding computers to the Wireless N Mini Router Router

- 1. Log on to the computer.
- Open Connect to a Network by right-clicking the network icon (m) or
 in the notification area.
- Choose the wireless network "Wireless-N" from the list that appears, and then click Connect.
- 4. Type the network security key or passphrase if you are asked to do so, and then click **OK**.

You'll see a confirmation message when you are connected to the network.

5. To confirm that you added the computer, do the following:

Open Network by clicking the **Start** button (2), and then clicking **Control Panel**. In the search box, type **network**, and then, under Network and Sharing Center, click **View network computers and devices**.

You should see icons for the computer you added and for the other computers and devices that are part of the network.

Note : If you don't see icons in the Network folder, then network discovery and file sharing might be turned off.

For more information:

http://windows.microsoft.com/en-US/windows7/Add-a-device-or-computer-to-a-network http://windows.microsoft.com/en-US/windows7/Setting-up-a-wireless-network http://windows.microsoft.com/en-US/windows-vista/Setting-up-a-wireless-network

Configuring via Web Browser

Open web browser and type http://192.168.10.253 in the browser's address box. This number is the default IP address for this device.

Eile	Edit	⊻iew	F <u>a</u> vorites	Tools	Help			
() B	Back •	6	- 🗙	2 (🏠 🔎 Search	Kavorites	Ø	8.
åddress	L P	http://19	2 168 10 2	253/				

The login screen below will appear. Enter the "User Name" and "Password" and click "**OK**" to login.

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

Connect to 192.1	168.10.253	2
R		
The server 192. requires a user Warning: This s username and pa manner (basic a connection).	168.10.253 at . "Wireless-N rame and password. server is requesting that your assword be sent in an insecure authentication without a secure	
User name:	😰 admin	~
Decourds	****	
Econoru:		

Setup Wizard

After a successfully login, you can click the $\,$ Quick Setup menu to quickly configure your Router.

Choose the Operation Mode you need, and then click Next.

Wi	zard	
	Operation Mode	
	AP :	Access Point mode
	Router :	Wireless router mode
	User-PC Wi	reless-N xDSL Modern Internet
	In this mode, the wired in connect to the router via recommended that compo- obtain.	iterface as the WAN port to use, computers can only wireless. This mode, the DHCP server enabled by default, iter's IP address and DNS address set to automatically
	Repeater :	Repeater mode
	O Bridge :	Bridge Mode
	O Client :	Client Mode
		Next
AP Mode:		
Wizard	IAccess Point mo	lde
	Access Point mode	
	SSID	Wireless-N
	Channel	Auto 💌
	Security Mode	Disable
		Back Save

Set the wireless parameter.It's recommended that you rename an SSID, choose a Security Mode and enter a Key. Click Save&Reboot to reboot the Router and make the settings take effect.

Router Mo	de:	
	Wizard Wireless route	er mode
	Wireless router mo	de
	 Automatically fr address (dynamical) 	om the network service provider to obtain an IP nic IP)
	O ADSL Dial-up (P	PPoE)
	Chappel	Wireless-N
	Security Mode	Disable
		Back Save

Set the wireless parameter.It's recommended that you rename an SSID, choose a Security Mode and enter a Key.

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** giben by your ISP,These fields are case-sensitive.

zard Wireless rout	er mode
Wireless router me	ode
O Automatically f address (dyna	rom the network service provider to obtain an IP mic IP)
ADSL Dial-up (PPPoE)
User Name	
Password	
Service Name	
SSID	Wireless-N
Channel	Auto 🛩
Security Mode	Disable 💌
	Pack Cave

Click Save&Reboot to reboot the Router and make the settings take effect.

Repeater Mode:

Wiz	Vizard Repeater mode						
	Repeater mode						ר
		Refres	h				
	SSID	BSSID	Channel	Encrypt	Signal	Select	
	Wireless-N1q	00:13:13:00:08:f3	11 B+G+N	NO	100%	Select	
	GS	00:a1:b0:aa:bb:cc	3 B+G	WPA2- PSK	100%	Select	
	Repeater	80:3f:5d:90:e7:e4	1 B+G+N	NO	100%	Select	
	123	00:13:13:00:06:e0	6 B+G+N	NO	80%	Select	
	Wireless-N252	00:0a:07:52:09:40	6 B+G	WPA2- PSK	65%	Select	
	ChinaNet-5005	08:18:1a:d6:ca:b9	11 B+G	WPA2- PSK	60%	Select	
	Showing_room	00:0d:09:81:09:04	8 B+G+N	WPA2- PSK	55%	Select	
	Wireless-N	00:13:13:00:06:17	11 B+G+N	NO	45%	Select	

Select the SSID of the target network and click Select.

Wizard Repeater mode				
	Repeater mode			
		Refresh		
	SSID	Wireless-N	Linmask	
		Back Save		

The target network's SSID will be automatically filled into the wireless setting figure. Select the Password. Then click **Save&Reboot** to reboot the Router and make the settings take effect.

Bridge Mode:

ard Bridge Mod	e				
Bridge Mode					
SSID	Wireless-N				
Security Mode	Disable	~	1		
SSID	Refres	h Channel	Encrypt	Signal	Select
Wireless-N1q	00:13:13:00:08:f3	11 B+G+N	NO	100%	Select
GS	00:a1:b0:aa:bb:cc	3 B+G	WPA2- PSK	100%	Select
Repeater	80:3f:5d:90:e8:92	1 B+G+N	NO	100%	Select
123	00:13:13:00:06:e0	6 B+G+N	NO	80%	Select
Wireless-N252	00:0a:07:52:09:40	6 B+G	WPA2- PSK	60%	Select
ChinaNet-5005	08:18:1a:d6:ca:b9	11 R+G	WPA2-	45%	Select

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

Wizard -	Bridge Mode		
	CBridge Mede		
	Bridge Mode		
	SSID	Wireless-N]
	Security Mode	Disable 💌	
		Refresh	
	SSID	Wireless-N252	
	Key		Unmask
		Back Save	

The target network's SSID will be automatically filled into the wireless setting figure. Select the Password. Then click **Save&Reboot** to reboot the Router and make the settings take effect.



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

Wizard -	Client Mode			
	Client Mode			
		Refresh		
	SSID	Wireless-N252		
	Key		🗌 Unmask	
		Back Save		

The target network's SSID will be automatically filled into the wireless setting figure. Select the Password. Then click **Save&Reboot** to reboot the Router and make the settings take effect.

LAN Settings

Please click "**Network** -**LAN Settings**" located at the web management interface, the following message will be displayed on your web browser:



- Note:
- If you change the IP Address of LAN, you must use the new IP Address to login the Router.
- If the new LAN IP Address you set is not in the same subnet, the IP Address pool of the DHCP server will change accordingly at the same time, while the Virtual Server and DMZ Host will not take effect until they are re-configured.

Connect to Internet

Please click "*Network →WAN Settings*" located at the web management interface, Following example is for "*PPPoE*" WAN setting.

	100001				
Wizard	WAN				
Network	WAN Basic Setting				
LAN Settings	WAN Access Type:	PPPoE	~		
WAN Settings		-	-		
Wireless	User Name:				
Firewall	Password:				
Advanced	Service Name(AC):	and the local second			
Managament	Connection Type:	Continuo	ar 🖌		
nanagement	Connec	t	Disconne	ict	
Status	Idle Time:	5	(1-1000 m	inutes)	
	MTU Size:	1452	(1360-149	2 bytes)	
Pofrash	O Attain DNS Automati	cally			
Kerresh	Set DNS Manual				
	DNS 1:				
and the second se	04/5 24	-			

Enter the **"PPPoE Username"** and **"PPPoE Password"** that ISP provided and leave the others. (The **"Service Name"** can be blank)

Click **"Apply Settings"** button to save the settings then reboot the router. After reboot, your router is now ready for Internet connection.

If your ISP provides a static or fixed IP Address, Subnet Mask, Gateway and DNS setting, select '*Static IP*'. Enter the *IP address / Subnet Mask / Default Gateway / MTU / Primary /* Secondary DNS in dotted-decimalnotation provided by your ISP.

wîfi N	WIRELESS-N M 802.11 B/G/N	
Wizard	WAN	
Network	WAN Basic Setting	
LAN Settings	WAN Access Type:	Static IP
Wireless	IP Address:	172.1.1.1
Firewall	Subnet Mask:	255.255.255.0
Advanced	Default Gateway:	172.1.1.254
Management	MTU Size: DNS 1:	1500 (1400-1500 bytes)
Status	DNS 2:	
	DNS 3:	
Refresh		

If your ISP provides the DHCP service, please choose '**DHCP Client**', and the Router will automatically get IP parameters from your ISP. This page displays the WAN IP parameters assigned dynamically by your ISP, including IP address, Subnet Mask, Default Gateway, etc.

wifi N	WIRELESS-N MI 802.11 B/G/N	NI ROUT	ER	G (4)	
Wizard	WAN				
Network	WAN Basic Setting				
LAN Settings WAN Settings	WAN Access Type:	DHCP Clie	mt 💌		
Wireless	Host Name:	Wireless-	N		
Firewall	MTU Size:	1492	(1400-149	2 bytes)	
Advanced	Attain DNS Automatic Set DNS Manual	ally			
Management	DNS 1:				
Status	DNS 2:				
	DNS 3:				
Refresh					

Wireless Base Configuration

Please click "*Wireless -> Basic Settings*" located at the web management interface, the following message will be displayed on your web browser:

You could configure the minimum number of Wireless settings for communication, such as Network Name (**SSID**) and Channel. The Access Point can be set simply with only the minimum setting items.

Wizard	Wireless Basic Sel	ttings	
Network	- Wireless Basic Settin	as	
Wireless	Disable Wireles	s LAN Interface	
Basic Settings Wireless Security	Band:	2.4 GHz (B+G+N	0 💌
advanced	Wireless Mode:	AP 💌	Virtual Wireless Network
Access Control	Network Type:	Infrastructure	
Schedule	SSID:	Wireless-N	
WDS	Channel Width:	4000Hz 💌	
WPS	Control Sideband:	Lawer -	
Firewall	Channel:	Auto 💌	
Advanced	Broadcast SSID:	Enabled 🐱	
in the second	WMM:	Enabled 👻	
management	Data Rate:	Auto 🖌	
Status	Associated Clients:	Show Acti	ve Clients

Disable Wireless Band:

Wireless On/Off Supports 11B/11G/11N mixed modes.

SSID: Main Service Set Identifier. It's the "name" of your wireless network. Broadcast SSID: Select "Enable" to enable the device's SSID to be visible by wireless clients

Channel Number

This field determines which operating frequency will be used. The default channel is set to Auto, so the AP will choose the best channel automatically. It is not necessary to change the wireless channel unless you notice interference problems with another nearby access point.

Wireless Security Configuration

Please click "*Wireless-> Wireless Security*" located at the web management interface, the following message will be displayed on your web browser:

Setup the wireless security and encryption to prevent from unauthorized access and monitoring. Supports 64/128-bit WEP, WPA, WPA2 encryption methods.



When you finish, click 'Apply Settings'.

Please click "Wireless-> WPS" located at the web management interface, the following message will be displayed on your web browser:

you can establish a wireless connection between wireless adapter and Router using either Push Button Configuration (PBC) method or PIN method.



Disable WPS: Enable / Disable

Self-PIN Number: If the new device supports Wi-Fi Protected Setup and the PIN method, you can add it to the network by PIN Number.

PBC method: If the wireless adapter supports Wi-Fi Protected Setup and the Push Button Configuration (PBC)

Step 1: Press the WPS button of the Router directly for 2 - 3seconds or Click web management interface '*Start PBC*'. **Step 2:** Press the WPS button of the Adapter directly for 3 seconds.

Step 3: Wait for a while until the next screen appears.

Click Finish to complete the WPS configuration.

Router Administrator Setup

Factory Default and Settings Backup , Restore You can backup all Setting of this router to a file, so you can make several copied of router configuration for security reason.

To backup or restore router setting, please follow the following instructions: Please click click '*Management-> Backup&Reset* ' located at the web management interface, then the following message will be displayed on your web browser:

wîfi N	WIRELESS-N MINI ROUTER
Minned	Configuration
Wizaro	Backup Settings
Network	
Wireless	Save Settings to File: Save
Firewall	Load Settings from
Advanced	File: Upload
Management	
Management	Reset Settings to Default
Time Zone	
Log	
Firmware Upgrade	
Status	
ave Settings	Press ' Save ' button, and you'll be prompted to download the configuration as a file, you can please save it as another filename for different versions, and keep it in a safe place.
oad Settings	Press 'Browse' to pick a previously-saved
-	configuration file from your computer, and then click
	'Upload' to transfer the configuration file to router. After
	the configuration is uploaded, the router's configuration
	will be replaced by the file you just unloaded
ocot Sottings	Click this 'Bosot Sotting to Dofault' button to remove
caci dennys	all settings you made and restore the configuration of
	this router back to factory default acttings
	this router back to factory default settings.

Firmware Upgrade

The system software used by this router is called as 'firmware', just like any applications on your computer, when you replace the old application with a new one, your computer will be equipped with new function. You can also use this firmware upgrade function to add new functions to your router, even fix the bugs of this router.

Please click '*Management-> Firmware Upgrade*' located at the web management interface, then the following message will be displayed on your web browser:

Click '**Browse...**' button first, you'll be prompted to provide the filename of firmware upgrade file. Please download the latest firmware file from our website, and use it to upgrade your router.

wîfi N	802.11 B/G/N	
Wizard	Firmware Upgrade	
Network	Firmware Management	
Wireless	Firmware Version:	523N2.v5.0817
Firewall	Select File:	Browse
Advanced		Upgrade Reset
Management		
Management		
Time Zone		
Log		
Firmware Upgrade		
Backup&Reset		
Status		

After a firmware upgrade file is selected, click '**Upgrade**' button, and the router will start firmware upgrade procedure automatically. The procedure may take several minutes, please be patient.

NOTE: Never interrupt the upgrade procedure by closing the web browser or physically disconnect your computer from router. If the firmware you uploaded is corrupt, the firmware upgrade will fail, and you may have to return this router to the dealer of purchase to ask for help. (Warranty voids if you interrupted the upgrade procedure). Change management password

Default password of Wireless Router is "admin", and it's displayed on the login prompt when accessed from web browser. There's a security risk if you don't change the default password, since everyone can see it. This is very important when you have wireless function enabled.

To change password, please follow the following instructions: Please click '**Management -> Management**' menu on the web management interface, the following message will be displayed on your web browser:

_			_	Har P
Wizard	Router Manageme	nt		
Network	Router Password			
Wireless	Router Username:]	
Firewall	New Password:]	
Advanced	Re-enter to confirm:]	
Management		Last Cation	[
Management		Apply Settings	Reset	
Time Zone				
Log				
Firmware Upgrade				
Backung Degat				

When you finish, click '*Apply Settings*'; If you want to keep original password unchanged, click '*Reset*'.

FCC Statement:

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Caution:

The user is cautioned that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

-Reorient or relocate the receiving antenna.

—Increase the separation between the equipment and receiver.

—Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

--Consult the dealer or an experienced radio/TV technician for help.

FCC Radiation Exposure Statement

A distance of 20 cm shall be maintained between the antenna and users, and the transmitter may not be co-located with any other transmitter or antenna. This transmitter must not be colocated or operating in conjunction with any other antenna or transmitter.