# Wireless AC750 Dual-Band Range Extender

WI TFI		
	Power LAN WANALAN WIFIMPS	
£3750	MEIMPS 🖱	8

Model: WS-WN566A2

Quick Installation Guide (Q.I.G.)

REV 1.0

#### Open Source Code

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#### Introduction:

The Wireless AC Range Extender is mainly used for providing free Wi-Fi service in big area such as factory, community, street or etc. The device can take an existing 2.4GHz or 5GHz wireless signal, repeat and extend it to a longer range where it is too far away for the router or access point to reach. The AP/Router simultaneously supports 2.4G and 5G wireless network connection, and it can supports 2.4G and 5G transmission speeds of up to 733Mbps. It has 3 x Internal Antennas providing even better wireless performance, transmission rates, stability technology automatically avoids channel conflicts using its channel selection feature.

#### **Package Contents**

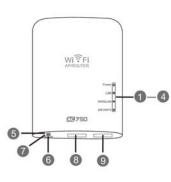
Before you starting to use this router, please check if there's anything missing in the package, and contact your dealer of purchase to claim for missing items:

1 x Wireless AC Range Extender

1 x RJ-45 Networking Cable

1 x Quick Installation

# Hardwear Overview



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- Power LED LAN LED WAN/LAN LED WiFi/WPS LED • •
- •
- •
- •
- WPS Button Mode Selector Reset button LAN Port WAN/LAN Port •

Default Parameters Default IP: 192.168.10.1 URL: http://ap.setup Login Name: admin Password: admin

2.4G SSID: Wireless-N(2.4G) 5G/AC SSID: Wireless-AC Wireless Key: no

## LED indicators

POWER	<b>ON:</b> The Device is power on
	OFF: The Device is not receiving electrical power.
LAN	<b>ON:</b> The Ethernet port is connected.
&	OFF: The Ethernet port is disconnected.
LAN/WAN	Flashing: Transferring data to/from a network device
	Fast Flashing: Wireless signal
WiFi/WPS	Slow Flashing: WPS connection is established or WPS signal of
	another device is expected

## **Getting Started**

### Setting up a Wireless Infrastructure Network

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

<u>Wireless AP Mode</u> The AP/Router is connected to a wired network-then transforms the wired Internet access into wireless so that multiple devices can share the Internet. So this mode is fit for office, home and places where only wired network is available.



Wireless Repeater Mode The AP/Router copies and reinforces the existing wireless signal to extend the coverage of the signal. Don't change the network's name (SSID) and password yet. This mode is especially useful for a large space to eliminate signal-blind corners.

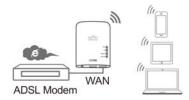


So this mode is fit for large

house, office, warehouse or other spaces where the existing signal is weak.

# Router Mode

The AP/Router is connected to a DSL or cable modem and works as a regular wireless router. So this mode is fit for the environment which Internet access from DSL or cable modem is available for one user but more users need to share the Internet.



Configure the Wi-Fi Repeater Mode



#### Configure the Wi-Fi Repeater Mode with WPS Button.

This is the easiest way to configure the AP/Router. First, check whether your wireless router supports WPS. For further details, please read the operating instructions for your wireless router.



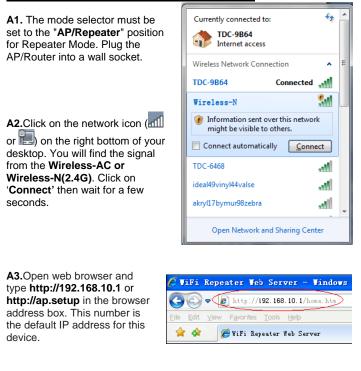
- 1. The mode selector must be set to the "**AP/Repeater**" position for Repeater Mode.
- 2. Plug the AP/Router into a wall socket.
- 3. Press the WPS button on the AP/Router for at least 6 seconds. The WiFi/WPS LED now flashes for approx. 2 minutes.
- Within these 2 minutes, please Press the WPS button of your Wireless AP/Router directly for 2 - 3 seconds. (For further details, please read the operating instructions for your wireless router.)

The AP/Router then automatically connects to your wireless router and copies wireless key of the settings.

The AP/Router can be accessed via the SSID and the wireless key of your wireless router.

You can configure the Wi-Fi Repeater Mode by connecting it with your computer/laptop with enclosed RJ45 cable or wirelessly.

### A. Configure the Wi-Fi Repeater Mode wirelessly.



**Note:** Please check whether the AP/Router accord with factory default settings once you can't entered http://192.168.10.1. If you are still not sure what reasons, you can reset the AP/Router, just need to press the reset button for 8 seconds, then try again.

**A4.**The login screen below will appear. Enter the User Name and Password then click **"Submit"** to login. The default User name is **"admin"** and Password is **"admin"**.



**A5.**After logging in, you will see the web page below: Click on the **Repeater** button in the Wizard.



**A6.** From the list, select a wireless network with which you want to connect the AP/Router by choosing the corresponding network in the "**Select**" field.

Wireless Repeater Mode				
Channel	Security	Signal	Select	
40 \	1		0	~
165	WPA2-PSK	at	0	
40	WPA2-PSK	at	0	
157	None	at	0	
44	None	all	0	~
	Channel 40 1 165 40 157	Channel     Security       40     WPA-PSK/WPA2-PSK       165     WPA2-PSK       40     WPA2-PSK       157     None	Channel     Security     Signal       40     WPA-PSK/WPA2-PSK	Channel     Security     Signal     Select       40     WPA-PSK/WPA2-PSK     III     O       165     WPA2-PSK     III     O       40     WPA2-PSK     III     O       157     None     III     O

**A7.** After having selected a wireless network, you must then specify the network key of your wireless router for Security key.

Connect to	RTK 11n AP 5G	
Repeater SSID 2.4G	Wireless-N(2.40	B)
Repeater SSID 5G	Wireless-AC	
The Repeater Wireless key sa	me as your Wireless Af	P/Router
	Apply	Refresh

After completing the entry, click on the "**Apply**" button. After the reboot has been completed, the AP/Router is accessible under the SSID and the Wireless key of your wireless router.

## B. Configure the Wi-Fi Repeater Mode with RJ45 Cable.

- 1. Plug the AP/Router into a wall socket. Connect your computer / laptop with the AP/Router with RJ45 Cable.
- 2. Follow process A3 to A7 to configure your AP/Router.

## Configure the Wireless AP Mode.

Use the AP Mode to obtain a "wireless access point". The wireless end devices will connect to the AP/Router in this mode. You can also use this mode, for example, to make a formerly non-wireless-enabled router wireless-enabled.



- 1. The mode selector must be set to the "AP/Repeater" position for AP Mode.
- 2. Plug the AP/Router into a wall socket.
- 3. Follow process A2 to A4.
- 4.



The following message will be displayed on your web browser:

Wireless AP Mode		
SSID 2.4G	Wireless-N(2.4G)	
SSID 5G	Wireless-AC	
Security Type	WPA2 PSK	$\checkmark$
Security key		0
	Unmask	
	Apply	Cancel

SSID	Wireless SSID of the AP/Router
Security type	Setup the wireless security and encryption to prevent from unauthorized access and monitoring. Supports 64/128-bit WEP, WPA, WPA2, WPA/WPA2 encryption methods.
Security key	The "Password" of the AP/Router

Click on 'Apply' button, The AP/Router will restart.

After the reboot has been completed, the AP/Router is accessible under the SSID and the Wireless key.

## **Configure the Wireless Router Mode**

The AP/Router is connected to a DSL or cable modem and works as a regular wireless router.

Internet access from DSL or cable modem is available for one user but more users need to share the Internet.



- 1. The mode selector must be set to the "Router" position for Router Mode.
- Plug the AP/Router into a wall socket
   Connect your DSL Modem with the AP/Router with RJ45 Cable
- 4. Follow process A3 to A4.
- After logging in, you will see the web page below: click on the **Router** button in the Wizard.



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.

lizalana Dautar	Mada
vireless Router	Mode
Internet service pro	viders offer a fixed IP address (static IP)
Automatically obtain	n an IP address (dynamic IP)
ADSL Dial-up (PPP	PoE)
SSID 2.4G	Wireless-N(2.4G)
SSID 5G	Wireless-AC
SSID 5G	Wireless-AC
SSID 5G Channel	Wireless-AC
SSID 5G Channel	Wireless-AC
SSID 5G Channel	Wireless-AC

If ADSL Dial-up (PPPoE) is selected, please enter the User Name and Password from your ISP, These fields are case-sensitive.

<ul> <li>Internet service providers offer a fixed IP address (static IP)</li> <li>Automatically obtain an IP address (dynamic IP)</li> <li>ADSL Dial-up (PPPoE)</li> </ul>				
User Name				
Password				
Unmask				
Service Name				

If static IP is selected, please enter the IP Address, Subnet Mask, Default Gateway, etc.

	providers offer a fixed IP a tain an IP address (dynar PPoE)	
IP Address:	172.1.1.1	
Subnet Mask:	255.255.255.0	
Default Gateway:	172.1.1.254	
DNS 1:		
DNS 2:		
DNS 3:		

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

SSID 5G	Wireless-N(2.4G) Wireless-AC
Channel	Auto 🗸
Security Mode	WPA2 Personal
Security key	
	Unmask

SSID	The "SSID" of the AP/Router
Channel	Auto (recommend)
Security type	Setup the wireless security and encryption to prevent from unauthorized access and monitoring. Supports 64/128-bit WEP, WPA, WPA2, WPA/WPA2 encryption methods.
Security key	The "Password" of the AP/Router

Click '**Apply**' button, It will restart. Wait for a few seconds your AP/Router is ready for use.

## Management via Web Browser

## Wireless Base Configuration

Please follow the following instructions: Click "Wi-Fi -> *Basic Settings*" located at the web management interface, the following message will be displayed on your web browser:

You could configure the basic setting 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.

Wireless Settings	AC Basic Settings	
Basic Settings Setup wireless basic configuration	Wireless Enable SSID	Enabled/Disable Wireless-AC
Advanced Wireless Advanced Configuration Schedule Wireless Schedule Back Back to home page	Channel Security Type	44 Disable v Apply
Wireless Enable	Wireless On/Off	
SSID	Wireless SSID of the AP/R	outer
Channel	Auto (Recommend)	
Security type	Setup the Wireless security and encryption to prevent fro unauthorized access and monitoring. Supports 64/128-bit WEP, WPA, WPA2, WPA/WPA2 encryption methods.	
Security key	The "Password" of the AP/	/Router

Click 'Apply' button, The AP/Router will restart.

### Change Management password

Default password of Wireless Repeater 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 -> Password*' menu on the web management interface, the following message will be displayed on your web browser:

e	Change your password			
	User name			
	New password			
	Retype password			
		Apply	Cancel	

If you want to keep original password unchanged, click 'Cancel'.

Click 'Apply' button, The AP/Router will log off.

#### Firmware Upgrade

The system software used by this router is called '**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-> Upgrade Firmware*' located at the web management interface, and then the following message will be displayed on your web browser:

${igodot}$	Upgrade firmware	
	Firmware version	MRE2-B3.gd.3464.1.20140710
	Select file	浏览
		Upload Cancel

Click '**Browse...**' or '**Choose File**' 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.

After a firmware upgrade file is selected, click '**Upload**' 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 interrupt, 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).

## 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 '*Save/Reload setting*' located at the web management interface, then the following message will be displayed on your web browser:

E	Save/Reload settings		
	Save settings	Save	
	Load settings	浏览 Upload	
	Reset settings	Load default	
Save Settings	Press ' <b>Save</b> ' button, yo for different versions, and	u can please save it as another filename keep it in a safe place.	
Load Settings	Press ' <b>Browse</b> ' to pick a previously-saved configuration file from your computer, and then click ' <b>Upload</b> '. After the configuration is uploaded, the router's configuration will be replaced by the file you just uploaded.		
Reset Settings	Click this 'Load default' b	outton to remove all settings	

## How to connect your computer/laptop with the AP/Router

## Adding a Wireless computers to the AP/Router

- 1. Log on to the computer.
- Open Connect to a Network by right-clicking the network icon ( or ) in the notification area.
- Choose the wireless network from the list that appears, and then click Connect.
- 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.

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Chinaryce 5005	.ul		
Willing marter1	lte.		
Connect automatically	nnect	5	
Wir <b>ulaus M2</b> 52	lle.	-	
Shawingpom	llee.		
USER_0190c1	l		
John Street 's Network	I	[	
Andreiten	I		
sw_	I		
NE	lue.	Ŧ	
Open Network and Sharing Center			
СН 🚎 🔺 🎪 🎼 🖫	14:39	1	

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

Open Network by clicking the **Start** button, 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.

#### Adding a Wireless computers to the AP/Router with WPS Button

This is the easiest way to establish a connection to the AP. First, check whether your end device supports WPS. For further details, please read the operating instructions for your end device.

- 1. Log on to the computer.
- Press the WPS button on the AP/Router for 3 seconds. The WIFI/WPS LED now flashes for approx. 2 minutes.
- 3. Within these 2 minutes, please press the connection button (WPS) on your end device. (For further details, please read the operating instructions for your end device.)

Your end device then automatically connects to your AP/Router and applies all of the settings. You should see icons and for the computer you added and for the other computers and devices that are part of the network.

## Adding a wired (Ethernet) computer to the AP/Router

- 1. Plug the AP/Router to a socket. Connect your computer / laptop with the AP/Router with enclosed RJ45 Cable.
- To Confirm that you added the computer, do the following: Open Network by clicking the Start button, 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.

#### 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

## How to configure your computer/laptop with the Network IP Address

- 1. Log on to the computer.
- Click the "Start" button (it should be located at the lower-left corner of your screen), then click "Control Panel". Click "View Network Status and Tasks", and then click "Manage Network Connections". Rightclick "Local Area Network", then select "Properties". When the "Local Area Connection Properties" window appears, select "Internet Protocol Version 4 (TCP/IPv4)" and then click "Properties".
- Setting IP address manually: Type IP address is 192.168.10.x (x is from 2 to 254), and Subnet mask is 255.255.255.0. Type the Router's LAN IP address (the default IP is 192.168.10.1) into the Default gateway field.

📮 Local Area	Connect	ion Propert	ies		<b>— X</b>	
Networking	Sharing					
Connectus	Connect using:					
	-	88E8059 PC	I-E Gigabit Eth	ernet Contr	oller	
			-		_	
This conne	rtion uses	the following	items:	Configu	re	
		rosoft Netwo				
🛛 🗹 📙 🐼	S Packet	Scheduler				
		ter Sharing fo ocol Version (	r Microsoft Nel 5 (TCP/IPv6)	tworks		
✓	ernet Prote	ocol Version 4	4 (TCP/IPv4)			
			overy Mapper overv Respon			
	in Edyci in	opology bisc	overy neapon	101		
Insta	I	Unins	tall	Properti	es	
Descriptio	n			_		
			ternet Protoco provides comr		uit	
across di	verse inter	connected n	etworks.			
			ОК		Cancel	
Internet Protoco	ol Version	4 (TCP/IPv4)	Properties		? 🗙	
General						
You can get 1	P settings a	assigned autor	matically if your	network su	poorts	
this capability for the appro	. Otherwis	e, you need to	ask your netw	ork administ	rator	
~		ss automatical	ly			
• Use the	-	P address:	100 100			
IP address			192 . 168 .			
Subnet ma			255 . 255 .			
Default ga	teway:		192 . 168 .	10 . 1		
Obtain DNS server address automatically						
Use the following DNS server addresses:						
Preferred	DNS server	:				
Alternate	DNS server	:		•		
🔲 Validati	e settings u	pon exit		Advan	ced	
L						
			0		Cancel	

#### Warning:

1: For indoor use only.

2. The main plug is used as disconnect device, the socket-outlet should be near the appliance and it

should be easily accessible.

3. This product must not be disposed together with the domestic waste. This product has to be disposed at

an authorized place for recycling of electrical and electronic appliances.

By collecting and recycling waste, you help save natural resources, and make sure the product is disposed

in an environmental friendly and healthy way.

#### FCC NOTE :

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.

THE MANUFACTURER IS NOT RESPONSIBLE FOR ANY RADIO OR TV INTERFERENCE CAUSED BY UNAUTHORIZED MODIFICATIONS OR CHANGE TO THIS EQUIPMENT. SUCH MODIFICATIONS OR CHANGE COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.

To maintain compliance with FCC's RF exposure guidelines, this equipment should be installed and operated with a minimum distance of 20cm between the radiator and your body.