WAVLINK
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QUICK START GUIDE
Wi-Fi Range Extender

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for Quick Start Guide downloading

WL-WN578S2   WAVLINK (@WavlinkOfficial)
WAVLINK SUPPORT (@WavlinkTechSupport)

Introduction

The device 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 802.11n 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 device supports 2.4G wireless network connection, and it can support 24G transmission speed of up to 300Mbps. It has 2 antennas providing even better wireless performance, transmission rates, and the technology of stability automatically avoids channel conflicts with its channel selection feature.

In the Box

1 x Wi-Fi Range Extender (the Device)
1 x Quick Start Guide
1 x RJ45 Ethernet Cable (Optional)

Overview

① Power On/Off
② WPS Button
③ Mode Selector
④ Reset Button
⑤ WAN/LAN Port
⑥ LAN Port
⑦ 3 x Wi-Fi Signal LED
⑧ Power/WPS LED
⑨ WAN/LAN LED
⑩ LAN LED

WPS Button:
Press 1~2 seconds, and wait for your device to connect,
Press 6 seconds, connect to your AP/router (in Repeater Mode)
Reset Button:
Press 3 seconds to reset the device,

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Default Parameters

Default IP: 192.168.10.1
URL: http://wifi.wavlink.com
Login Password: admin
Wi-Fi SSID: WAVLINK-N
Wi-Fi Key: no

LED Indicators

POWER/WPS	ON: The device is powered on. OFF: The Device is not receiving electrical power, Slow Flashing: The Device WPS is waiting for client to connect, Fast Flashing: The device has connected to your AP/router
LAN WAN/LAN	ON: The Ethernet port is connected, OFF: The Ethernet port is disconnected. Flashing: Data is transferring

Wi-Fi Signal

Mode				Description
AP/Router	ON	ON	ON	Wi-Fi signal output power 100%
Repeater	ON	ON	ON	Excellent reception signal strength 50% to 100%
	ON	ON	OFF	Good reception signal strength 25% to 50%
	ON	OFF	OFF	Weak reception signal strength below 25%
	Flashing	OFF	OFF	Disconnected

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Getting Started

Set up a Wireless Infrastructure Network
For a typical wireless setup at home (as shown below), please do as the following:

Wireless AP Mode
The Device is connected to a wired network then transforms the wired Internet access into wireless so that multiple devices can share the Internet. **This mode is fit for** office, home and places where only wired network is available.

Wireless Repeater Mode
The Device copies and reinforces the existing wireless signal to extend the coverage of the signal. This mode is especially useful for a large space to eliminate signal-blind corners.**This mode is fit for** large house, office, warehouse or other spaces where the existing signal is weak.

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

LAN Cable
You can connect the Device to your computer with a LAN cable,

Quick and Easy

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Configure the Wi-Fi Repeater Mode

Configure the Wi-Fi Repeater Mode with WPS Button.
Please make sure your wireless router supports WPS before configurating, then follow the instruction to start your configuration.

Tips: If you want to keep a stable connection between your router and this repeater at REPEATER mode, please install this repeater at a suitable position.
You can check the suitable position as the followings:
Check the LED of the repeater, if the LED is below 2 levels, please find a new place.
OR You can check the Wi-Fi signal on your smartphone, if the signal is below 2 levels, we suggest you to change the location of the repeater

1.The mode selector must be set to the "**Repeater**" position for Repeater Mode.
2.Plug the Device into a wall socket.
3.Press the WPS button on the device for 6 seconds. The WPS LED will keep fast flashing for approx. 2 minutes,
4.Within these 2 minutes, please press the WPS button of your Wireless Router directly for 2 - 3 seconds. (For further details, please read the operating instructions for your wireless router.)

The Device will then automatically connect to your wireless router and copy wireless key of the settings. The device Wi-Fi Password is the same as that of your AP/router. After the reboot is completed, please set the connection with new SSID in WLAN setting.

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

A. Configure the Wi-Fi Repeater Mode Wirelessly

A1. The mode selector must be set to the "**Repeater**" position for Repeater Mode, Plug the device into a wall socket.

A2. Click on the network icon (or) on the right bottom of your desktop, You will find the signal from the **WAVLINK-N.** Click on"**Connect**" then wait for a few seconds.

A3. Open web browser and type http://**192.168.10.**1or http://**wifi.wavlink.com** in the browser address box.

Note: Please check whether the device accords with factory default settings once you can't enter http://**192.168.10.1** or http://**wifi.wavlink.com.** If you are still not sure the reasons, please press the Reset button for 3 seconds to reset the device.

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A4. Please set a new password, and then click "**Login**". The default Password is "**admin**".

A5. When you log in to the device management interface for the first time, after successful login, the interface will automatically come to the interface where the **Mode Selection Switch** is located on the device. Also you will see the following page, please click on **Wizard.**

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

1.Plug the device into a wall socket. Connect your computer/laptop to the device via RJ45 Cable.
2.Follow process **A3** to **A7** to configure the device.

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Configure the Wi-Fi AP Mode

Use the AP Mode to obtain a "**wireless access point**", and the wireless end devices will connect to the device in this mode, You can also use this mode to make a formerly non-wireless-enabled to router wireless-enabled.

Click on the "**Connect**" button. After the reboot is completed, please connect to new Wi-Fi SSID in device's WLAN setting.

1.The mode selector must be set to the "**Access Point**" position for AP Mode.
2.Plug the Device into a wall socket.
3.Follow process **A2** to **A5.**

The following message will be displayed on your web browser:

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Configure the Wi-Fi Router Mode

The Device 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.
2.Plug the Device into a wall socket,
3.Connect your DSL Modem to the Device via RJ45 Cable.
4.Follow process **A3** to **A5.**
5.Click on the **Router** button.

SSID	Wireless SSID of the Device
Security type	Set up the wireless security and encryption to prevent unauthorized access and monitoring, Supports WPA, WPA2, WPA/WPA2 encryption protocols.
Security key	The **"Wi-Fi Password"** of the Device

Click on "**Apply**" button, and the device will restart. After the reboot is completed, you can connect a new SSID in your device's WLAN setting.

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Choose your WAN Connection Type:

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

Enter the Device wireless parameter. It's recommended that you rename an **SSID**, choose a **Security Type** and enter a **Wi-Fi Password.**

SSID	The "**SSID**" of the Device
Security type	Set up the wireless security and encryption to prevent unauthorized access and monitoring. Supports WPA, WPA2, WPA/WPA2 encryption protocols.
Security key	The **"Wi-Fi Password"** of the device

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If **Static IP** is selected, please enter the **IP Address, Subnet Mask, Gateway IP, DNS,**etc.

Enter the device wireless parameter. It's recommended that you rename an **SSID**, choose a **Security Type** and enter a **Wi-Fi Password. Click "Apply"** button, and it will restart, please wait patiently for a few seconds to use.

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Management via Web Browser

Wireless Base Configuration
Please follow the following instructions: Click "**Wi-Fi->Wi-Fi Setup** " to configure the basic settings of wireless settings.

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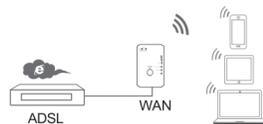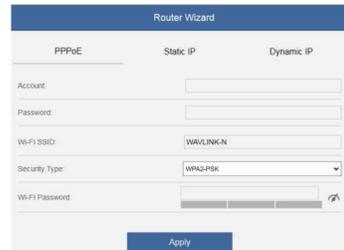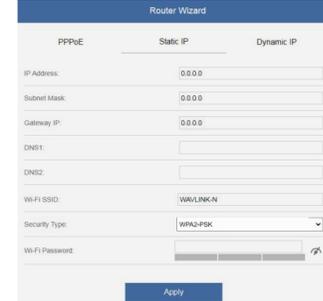---

Wireless Status	Wireless On/Off
SSID	Wireless SSID of the Device
Security type	Set up the wireless security and encryption to prevent unauthorized access and monitoring, Supports WPA, WPA2, WPA/WPA2 encryption protocols.
Security key	The **"Wi-Fi Password"** of the AP/router

Click "**Apply**" button, and the device will restart.

Change Management Password

Default password of the device is "admin", please follow the instructions to change the password.
Please click "**Setup->Login Password** " menu on the web management interface, the following message will be displayed on your web browser:

Click "**Apply**" button, and the device will automatically log out.

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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 "**Setup -> Upgrade Firmware**" located at the web management interface, and then the following message will be displayed on your web browser:

Click "**Select file**" button first, you'll be prompted to provide the file name 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 "**Apply**" button, and the device 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 the device. If the firmware you upload is interrupted, the firmware upgrade will fail, and you may have to return the device to the dealer of purchase to ask for help.
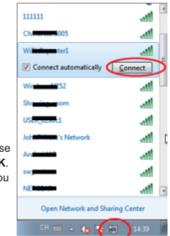
Warranty voids if you interrupt the upgrade procedure.

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Connecting to the Device

Adding a Wireless Computer to the Device

1.Log on to the computer.

2.Open **Connect to a Network** by right-clicking the network icon (or) in the notification area.

3.Choose the wireless network 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 the computer has been added to the network, do the following: Open Network by clicking the **Start** button , and then clicking **Control Panel.** In the search box, type **network**, then click **View network computers and devices** in the list of **Network and Sharing Center,** You will see icons for the computer you added that are part of the network.

Note: If you don't see icons in the Network folder, please turn on "**Network discovery and file sharing**".

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Adding a Wireless Computer to the Device with WPS Button

First, please ensure your end device supports WPS. For further details, please read the operating instructions for your end device.
1. Log on to the computer.
2. Press the WPS button on the device for 2 seconds. The WPS LED will flash 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 the device and applies all of the settings.You will see icons for the computer that you have added that are part of the network,

Adding a Wired (Ethernet) Computer to the Device

1.Plug the device into socket. Connect your computer/laptop to the device with enclosed RJ45 Cable.
2.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**, then click **View network computers and devices** in the list of **Network and Sharing Center.** 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

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