

300Mbps Wireless-N Access Point/Repeater

WFREPEAT300N



*actual product may vary from photos

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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.

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Table of Contents

Introduction	
Packaging Contents	1
System Requirements	1
Diagram	2
Front	2
Back	2
Installation	3
Repeater Mode Setup:	3
Access Point Mode Setup:	6
Advanced Configuration	8
Wireless	9
Wireless Cont'd	10
LAN Interface	11
Management	11
Save/Reload Settings	12
Reboot	12
Specifications	13
Technical Support	14
Warranty Information	14

i



Introduction

The WFREPEAT300N 300Mbps Wireless-N WiFi Access Point and Repeater has two selectable modes for extending the range of existing wireless networks or adding wireless capabilities to a non-wireless network. Using a wall plug design, this allows for convenient or hidden placement anywhere there is an available AC outlet. As a wireless repeater, the effective range of any 802.11n WiFi network can be increased, while still providing up to 300Mbps of data bandwidth. This WiFi signal booster can help eliminate dead spots and provide a stronger signal in areas with obstructions that can reduce the range of a wireless signal. The WiFi range extender is also backward compatible with 802.11b/802.11g networks. As a wireless access point (AP), any non-wireless router can be given wireless-N capabilities. Built in wireless security (WEP/WPA/WPA2) will help to keep the network private. Backed by a StarTech.com 2-year warranty and free lifetime technical support.

Packaging Contents

- · 1x Wireless-N Repeater
- 1x RJ45 Ethernet Cable
- 3x Interchangeable Wall Socket Plug (NA/UK/EU)
- · 1x Instruction Manual

System Requirements

Available AC electrical outlet

Repeater Mode:

• IEEE 802.11B or G or N compliant wireless access point (AP)

Access Point Mode:

- IEEE 802.3i/802.3u (10/100 Mbps) compliant network router
- RJ45 terminated UTP Ethernet cable



Diagram

Front



Back





Installation

Repeater Mode Setup:

- 1. Connect the Repeater to an available AC electrical outlet.
- 2. Wired Setup: Connect an RJ45 Ethernet cable from the Repeater to your computer. Wireless Setup: Connect to the wireless network 'WiFi-Repeater'.
- 3. The default IP address on the Repeater is 192.168.10.1; configure your computer to a matching network address (192.168.10.x, where 'x' is between 2~255) with subnet set to 255.255.255.0 and gateway to 192.168.10.1.
- Open a web browser window and enter 192.168.10.1 into the address bar. This will bring up the login prompt for the Repeater. The default user name and password are 'admin' (without quotes).
- From the main menu on the left side of the web interface, click the 'Setup Wizard' link followed by the 'Wireless Repeater Mode (Station) option. Click 'Next' to continue.



The next screen will list some basic configuration information, so click the 'Repeater – OneKey Setting' button to continue, followed by the 'Wireless Network Selection' button.





7. The next screen will display a list of detected wireless networks. Click the 'Refresh List' button to rescan. Select the desired wireless network and then click the 'Next' button.



8. Wireless encryption settings will be automatically detected and listed on the following screen. If the wireless network has a password, then enter this into the 'Pre-Shared Key' field. You should not need to change any other settings on this screen. Click 'Apply and Reboot' and you will receive a confirmation prompt. Click 'OK' to proceed.



After the unit has rebooted, the configuration settings/status will be listed. Confirm that the Mode has been set and the correct network name (SSID) is listed and connected to.



Access Point Mode Setup:

- 1. Connect the Repeater to an available AC electrical outlet.
- 2. Wired Setup: Connect an RJ45 Ethernet cable from the Repeater to your computer. Wireless Setup: Connect to the wireless network 'WiFi-Repeater'.
- 3. The default IP address on the Repeater is 192.168.10.1; configure your computer to a matching network address (192.168.10.x, where 'x' is between 2~255) with subnet set to 255.255.255.0 and default gateway to 192.168.10.1.
- Open a web browser window and enter 192.168.10.1 into the address bar. This will bring up the login prompt for the Repeater. The default user name and password are 'admin' (without quotes).
- 5. From the main menu of the Repeater configuration utility, click the 'Setup Wizard' link followed by the 'Standard Wireless AP Mode' option. Click 'Next' to continue.

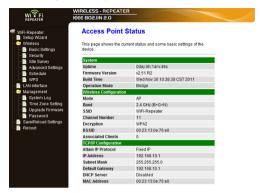


The next screen will list some basic information. Click the 'AP – OneKey Setting' button to proceed.





7. The Repeater will automatically pre-configure itself with default information and then reboot. If there are multiple wireless networks or a problem occurs with the automatic setup, Advanced Configuration may be required. Otherwise the setup is complete.



Advanced Configuration

Advanced configuration options for the Repeater can be accessed via the web interface.

- 1. Connect an RJ45 Ethernet cable from the Repeater to your computer.
- 2. The default IP address on the Repeater is 192.168.10.1; configure your computer to a matching network address (192.168.10.x, where 'x' is between 2~255) with subnet set to 255.255.255.0 and default gateway to 192.168.10.1.
- Open a web browser window and enter 192.168.10.1 into the address bar. This will bring up the login prompt for the Repeater. The default user name and password are 'admin' (without quotes).





Wireless

Click the link for 'Wireless' on the main menu, followed by 'Basic Settings'. This will present the basic wireless configuration options for the current mode and also allow for manually changing the Mode type. Other options are available on the main menu, such as encryption settings (Security), list of detected WiFi networks (Site Survey), time of use scheduling (Schedule) and WiFi Protected Setup (WPS).



Wireless Cont'd

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 negatives.



Wireless Site Survey

This page provides tool to scan the wireless network. If any Access Point or IBSS is found, you could choose to connect it manually when Repeater mode is enabled. Select in this list the radio nathern you would like to extend.



Next

Wireless Schedule

Apply Changes Reset

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

Enable Wireless Schedule

Enable	Day	From	То
	Sun ▼	00 * (hour) 00 * (min)	00 - (hour) 00 - (min)
	Sun ▼	00 ~ (hour) 00 ~ (min)	00 ~ (hour) 00 ~ (min)
	Sun ▼	00 ~ (hour) 00 ~ (min)	00 + (hour) 00 + (min)
	Sun ▼	00 ~ (hour) 00 ~ (min)	00 + (hour) 00 + (min)
	Sun ▼	00 v (hour) 00 v (min)	00 ¬ (hour) 00 ¬ (min)
	Sun ▼	00 v (hour) 00 v (min)	00 y (hour) 00 y (min)
	Sun ▼	00 v (hour) 00 v (min)	00 * (hour) 00 * (min)
	Sun ▼	00 ~ (hour) 00 ~ (min)	00 ~ (hour) 00 ~ (min)
	Sun ▼	00 ~ (hour) 00 ~ (min)	00 ¬ (hour) 00 ¬ (min)
	Sun ▼	00 - (hour) 00 - (min)	00 * (hour) 00 * (min)

Apply Changes Reset



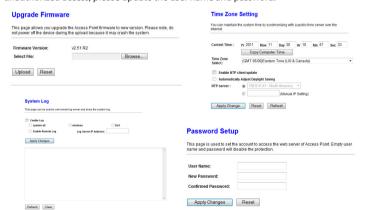
I AN Interface

The 'LAN Interface' options allow for configuration of settings for the LAN port (RJ45), when used in Access Point mode. The Unit's IP address, DHCP settings and other related settings can be customized to match your needs.

LAN Interface Setup This page is used to configure the parameters for local area network which connects to the LAN port of your Access Point, Here you may change the setting for IP addresss, subnet 192 168 10 1 ID Addrose: 255.255.255.0 Subnet Mask: Default 192.168.10.1 Catoware DUCD-Disabled ▼ NHCP Client Range: Static DHCP: Domain Name: Repeater 802.1d Disabled -Spanning Tree: Clone MAC 0000000000000 Address Apply Changes Reset

Management

The 'Management' sections contain settings for various administrative functions for the unit. An important section to note is the 'Password' screen. It is recommended that the default password for the Unit be changed before you finish configuration. To prevent unauthorized access, please update the user name and password.



Save/Reload Settings

The current settings for the unit can be saved to a file on your computer and reloaded onto the Repeater at any time. The Repeater can be reset to factory defaults from this screen, by clicking the 'Reset' button. The Repeater can also be reset to factory defaults by pressing and holding the 'Reset' button, located next to the RJ45 port, for 10 seconds



Reboot

This provides a remote method of soft restarting the Unit.

Specifications

Supported Wireless		
Standards	IEEE 802.11b/g/n	
Chipset ID	Realtek RTL8196C	
Connectors	1 x RJ45 Ethernet female	
LEDs	1 x Power 1 x Wireless Link/Activity 1 x Ethernet Link/Activity	
Antenna Configuration	2x2:2 (TxR:S)	
Antenna Type	2dBi (internal)	
Wireless Frequency Range	2.4 GHz ~ 2.485 GHz	
Wireless Bandwidth	20/40MHz	
Wireless Encryption Supported	WEP, WPA, WPA2	
Maximum Wireless Distance	300m (950ft)	
Maximum Data Transfer Rate	802.11n: 300 Mbps 802.11g: 54 Mbps 802.11b: 11 Mbps RJ45 Ethernet: 10/100 Mbps	
Enclosure Material	Plastic	
Operating Temperature	0°C ~ 40°C (32°F ~ 104°F)	
Storage Temperature	-40°C ~ 70°C (-40°F ~ 158°F)	
Humidity	10% ~ 90% RH	
Dimensions	100.0mm x 60.0mm x 50.0mm	
Weight	120g	



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Warranty Information

This product is backed by a two year warranty.

In addition, StarTech.com warrants its products against defects in materials and workmanship for the periods noted, following the initial date of purchase. During this period, the products may be returned for repair, or replacement with equivalent products at our discretion. The warranty covers parts and labor costs only. StarTech.com does not warrant its products from defects or damages arising from misuse, abuse, alteration, or normal wear and tear.

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