



ALL0238RD

Wireless N 300Mbit Dual-Band
Access Point/Repeater



User Manual

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FactoryDefault-IP:

192.168.1.1

Username: admin

Password: admin

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About the Device

ALLNET ALL0238RD is a dual band Wall-plugged 300Mbps Wireless-N Repeater, which supports wireless 802.11b/g/n, and one 10/100 Base-T Ethernet port.

Repeat and Extend the WiFi Network

ALL0238RD supports robust 802.11n technology with up to 300Mbps data transfer rate. The Repeater 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. It eliminates the cable wires while providing the same reliable network connection. It can repeat and extend the wireless signal from virtually any 802.11n wireless router or access point that is launched on the market. It is backwards compatible with the 802.11b/g router or access point.

Make Wired Network WiFi Ready

The Repeater is equipped with 1 x 10/100M Auto MDI/MDIX LAN port that can be used to connect to an existing wired network to serve as a wireless interface. It can also be used to configure the Repeater via its web-based GUI, or upgrade the firmware.

MIMO Technology

The device is designed with MIMO technology, which successfully reduces areas with weak wireless network coverage within a home or in the building.

Advanced Security

ALL0238RD features with 64/128-bit WEP encryption and WIFI Protected Access (WPA), WPA2 to ensure the network security and prevent unauthorized access to you network.

Portable without the Need of External Power Supply

The device is easy to setup. It is portable with no need of any external power adaptor. It comes with the embedded power supply and power plug, so that users can just plug the device into a power socket.

Minimum System Requirements

Your computer must meet the following minimum requirements.

- Any operating system can be used
- Web Browser
- 233MHz processor (or higher)
- Ethernet network adapter
- Or Wireless network adapter

Package Contents

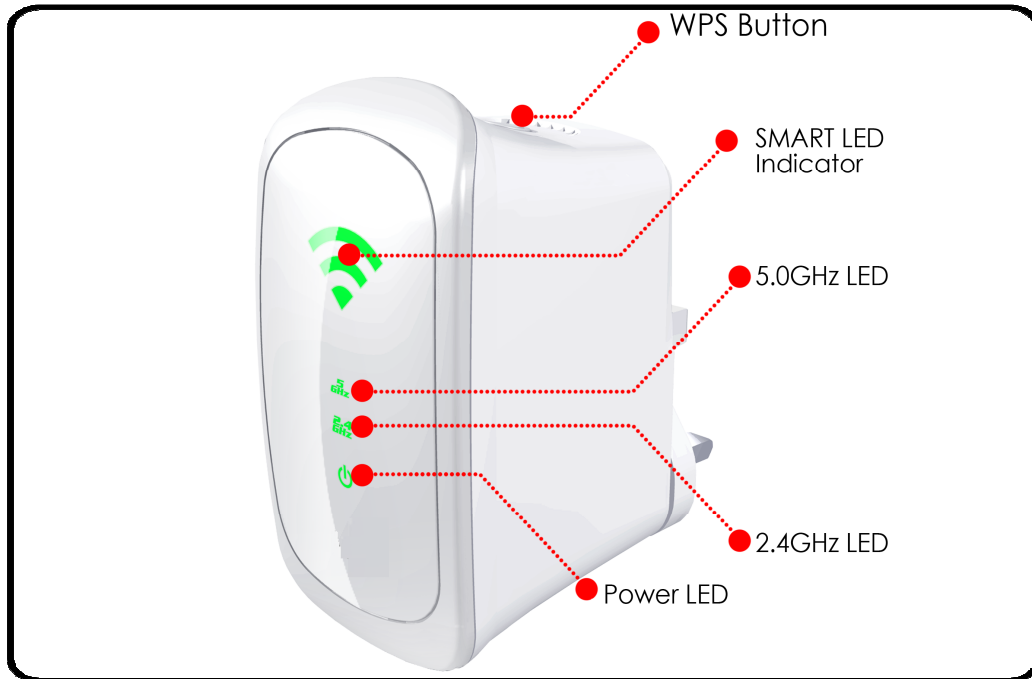
Package contents are listed below. For any missing items, please contact your dealer immediately. Product contents vary for different models.

- ALL0238RD
- Ethernet cable
- Easy Start Guide
- Resource CD

Note: You may also download the Easy Start Guide, and the User Manual by visiting this link: www.allnet.de/downloads.html

Device Design

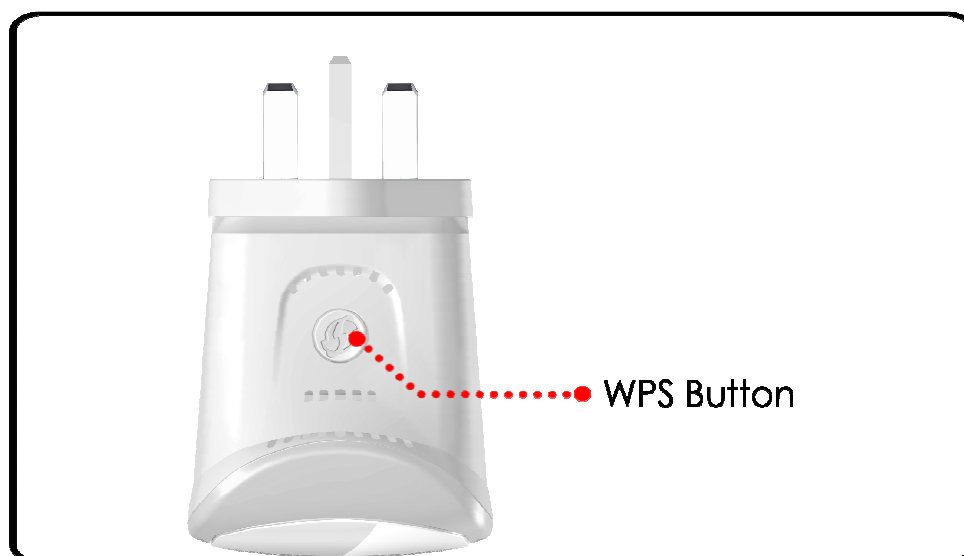
Front Panel



LABEL	STATE	DESCRIPTION
SMART LED Indicator		
3 BARS	Connected	95% and above (Excellent)
2 BARS	Connected	55-94% (Recommended)
1 BAR	Connected	10-54% (Weak)

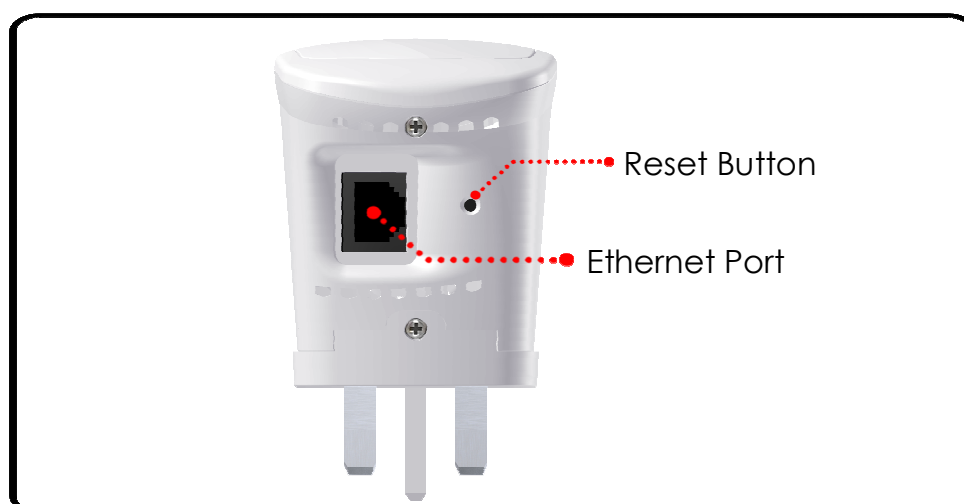
LABEL	STATE	DESCRIPTION
2.4GHz	OFF	No Wireless Device is connected.
	Blinking	A Wireless Device is connected and is actively transmitting / receiving data
5.0GHz	OFF	No Wireless Device is connected.
	Blinking	A Wireless Device is connected and is actively transmitting / receiving data
Power LED	ON	ALL0238RD is Plugged to a working Power Outlet

Top Panel



LABEL	DESCRIPTION
WPS Button	Press this button for 2 seconds to connect the ALL0238RD to any WPS capable devices (Wireless Device)
	Press this button for 5 seconds to connect the ALL0238RD to any WPS capable devices (Wireless Router)

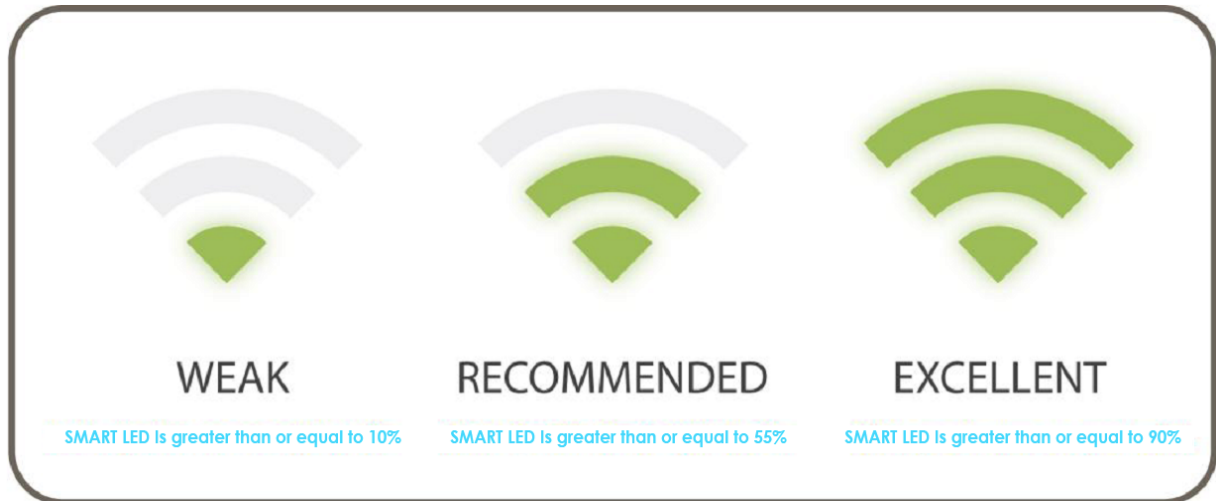
Bottom Panel



LABEL	DESCRIPTION
RESET	Press the Reset button for 30 seconds to restore the device to default factory settings
ETHERNET PORT	Connect to computers/Ethernet devices

SMART LED Indicator

Your ALL0238RD is equipped with a SMART LED indicator which determines the signal strength from your wireless router as seen below:



NOTE: Wireless reception and throughput may vary according to the number of Wireless Devices that are in use, and at the same time, other nearby wireless devices, structure types, building materials, and other interferences present.

The Web User Interface

The Web User Interface of your ALL0238RD allows you to configure the various features of your ALL0238RD. This will serve as your main tool in monitoring and configuring all of your ALL0238RD's main features.

Accessing the Web User Interface

NOTE: To avoid any conflicts in accessing the Web User Interface, it is strongly advised to do the following:

- Simply access the Web User interface through an Ethernet connection. This is achieved by connecting your Computer and your ALL0238RD through an Ethernet cable.
- If present, kindly turn off the wireless adapter of your computer. You may enable the wireless adapter after completing the setup. This is to avoid IP address conflict which might block you from accessing the Web user interface.
- Remove temporary Internet files.

To access the Web User Interface through an Ethernet connection:

1. Connect your computer to the ALL0238RD device using an Ethernet cable.
NOTE: before proceeding to step 2, please check the SMART LED of the device; the LED should be in GREEN WEAK status and BLINKING.
2. Launch any web browser. You would automatically be redirected to your ALL0238RD's web user interface.
3. If in any case it does not, kindly type **192.168.1.1** on the address bar and press Enter. You will then be redirected to the Home page of your ALL0238RD's web user interface.
4. Upon redirecting, a window showing the wireless networks within range would appear. You may close this mini window or choose to connect to your preferred wireless network immediately.

If you wish to connect to a wireless network immediately you may do the following steps:

1. Click the connect button that corresponds to the network you want to connect to.



2. Enter the correct Wireless Password of the preferred network then click the Apply button.

The screenshot shows the 'Setup for ALL0238RD' web interface. It includes the following configuration options:

- Frequency:** 2.4 GHz (selected) and 5.0 GHz.
- Mode of Operation:** Repeater (selected), Access Point, Bridge.
- SSID:** ALLNET.2014
- MAC Address:** 00:0f:c9:0e:9d:52
- Broadcast SSID:** ENABLED (selected), DISABLED.
- Security Mode:** WPA2 PSK (selected).
- WPA Passphrase:** eF-eM#714 (with a Mask checkbox).
- WPA Encryption:** TKIP, AES (selected).
- Channel:** 2437MHz (Channel 6) (selected).

At the bottom, there is an 'Apply' button with a checkmark icon.

3. Kindly wait for the repeater to finish initializing its connection. Your ALL0238RD would reboot upon successful connection displaying the status depending on the frequency band (2.4GHz or 5.0GHz) of the wireless network you connected to:

For 2.4GHz wireless networks



For 5.0GHz wireless networks



NOTE: To know if you have successfully connected to your device, you may also check the LEDs of your ALL0238RD; the SMART LED Indicator would be in STABLE GREEN light.

Web User Interface Menu

The web user interface was made for users to easily access and control your ALL0238RD's main features. It is mainly comprised of the following menus:



- Quick Connect
- Setup
- Wireless
- Device Admin
- Device Status
- WPS

Quick Connect

The Quick Connect menu allows you to scan for the available wireless networks within range and connect to your preferred wireless network as well.

Available Wireless Networks								
Channel	GHz	SSID	MAC Address	Security	Signal	Mode	Type	WPS
6	2.4	ALLNET.2014	00:0f:c9:0e:9d:52	WPA2		11b/g/n	Infrastructure	NO
11	2.4		50:a7:33:9c:ec:58	WPA2		11b/g/n	Infrastructure	NO
11	2.4		50:a7:33:dc:ec:58	WPA2		11b/g/n	Infrastructure	NO
11	2.4	ALLNET-Guest	50:a7:33:5c:ec:58	WPA2		11b/g/n	Infrastructure	NO
11	2.4	ALLNET-INT1	50:a7:33:1c:ec:58	WPA2		11b/g/n	Infrastructure	NO

To connect to a Wireless Network, simply do the following:

1. Click the **Quick Connect** menu icon and wait for the search initialization to finish.

- Determine your preferred wireless network then click its corresponding **Connect** button. You will then be redirected to the Wireless Setup page of your ALL0238RD as seen below:

Setup for ALL0238RD

2.4 GHz 5.0 GHz

Mode of Operation: Repeater Access Point Bridge

SSID: ALLNET.2014

MAC Address: 00:0f:c9:0e:9d:52

Broadcast SSID: ENABLED DISABLED

Security Mode: WPA2 PSK

WPA Passphrase: eF-eM#714 Mask

WPA Encryption: TKIP AES

Channel: 2437MHz (Channel 6)

Apply

- Input the Wireless network's passphrase on the **WPA Passphrase** (Wireless Password) text box then click **Apply**. Kindly wait for the repeater to finish initializing the connection. Your repeater would reboot upon successful connection.

NOTE: To know if you have successfully connected to your device, check the LEDs of your ALL0238RD; it would be in STABLE GREEN light.

Setup

The Setup page shows the current properties of the ALL0238RD. This page also allows you to change the mode of operation, the SSID, the security mode, enable or disable the broadcast of your SSID, change the passphrase of the SSID broadcasted by your ALL0238RD, and define the encryption type.

The screenshot shows the 'Setup for ALL0238RD' web interface. At the top, there are two tabs: '2.4 GHz' and '5.0 GHz', with '5.0 GHz' being the active tab. Below the tabs, there are several configuration fields: 'Mode of Operation' with buttons for 'Repeater' (selected), 'Access Point', and 'Bridge'; 'SSID' with a text field containing 'ALLNET.2014-5Ghz'; 'MAC Address' with a text field containing '00:0f:c9:0e:9d:53'; 'Broadcast SSID' with buttons for 'ENABLED' (selected) and 'DISABLED'; 'Security Mode' with a dropdown menu showing 'WPA2 PSK'; 'WPA Passphrase' with a text field containing 'th1nkBlu3' and a 'Mask' checkbox; 'WPA Encryption' with buttons for 'TKIP' and 'AES' (selected); and 'Channel' with a dropdown menu showing '5240MHz (Channel 48)'. At the bottom, there is a blue 'Apply' button with a checkmark icon.

- **SSID.** Refers to your ALL0238RD's wireless network name.
- **MAC Address.** The MAC address of your ALL0238RD. The information in this field cannot be changed.
- **Broadcast SSID.** Allows you to enable or disable the broadcast of your wireless. By disabling this, you have to manually connect to your wireless network.
- **Security Mode.** Allows you to configure the combination of characters the wireless password would have.
- **WPA Passphrase.** Allows you to add the current wireless password of the Wireless Network. You are only allowed to configure this in the setup page AFTER you have successfully connected to a network.
- **WPA Encryption.** Allows you to change the encryption settings of your ALL0238RD.
- **Channel.** Allows you to configure the wireless channel of your ALL0238RD.

Wireless

The Wireless page shows the current properties of the Wireless Network broadcasted by your ALL0238RD. This menu allows you to modify basic router settings, your wireless network's security settings, and also add and delete MAC filters.

The Wireless page has the following sub menus that can be found on the second layer of icons just below the main menu icon shortcuts:



- Basic Wireless Settings
- Security Settings
- MAC Filter

Basic Wireless Settings

The Basic Wireless Settings page allows you to configure the basic properties of your ALL0238RD such as enabling the wireless feature and SSID broadcast, changing the name of the Wireless SSID, defining a preferred wireless mode for your ALL0238RD, changing the Wireless channel and various HT properties

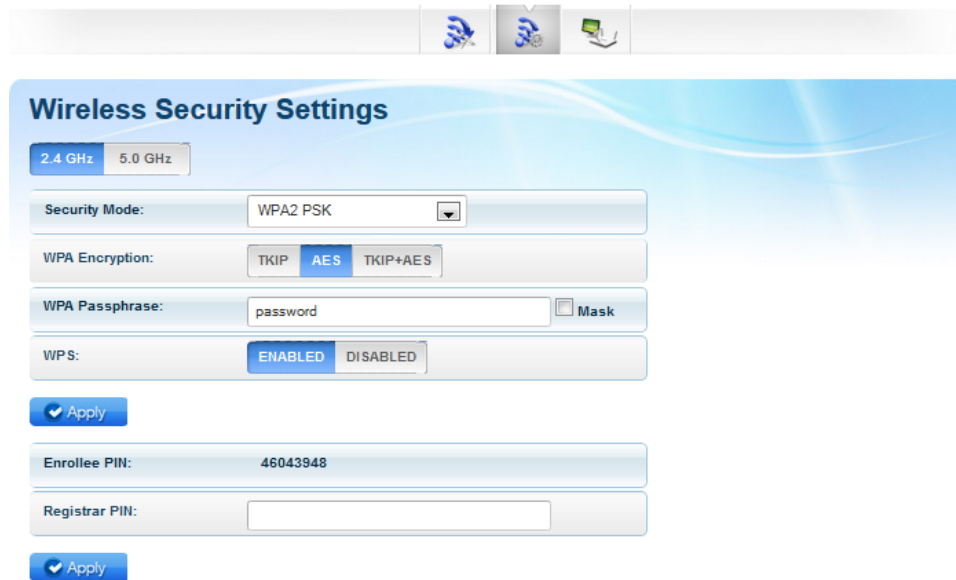
The image shows a web interface for 'Wireless Basic Settings'. At the top, there are two tabs: '2.4 GHz' (selected) and '5.0 GHz'. Below this, there are several configuration rows. 'Enable Wireless:' has 'ENABLED' and 'DISABLED' buttons, with 'ENABLED' selected. 'Broadcast SSID:' also has 'ENABLED' and 'DISABLED' buttons, with 'ENABLED' selected. 'SSID:' is a text field containing 'ALLNET.2014(2.4Ghz)('. 'Wireless Mode:' is a dropdown menu showing '11b/g/n mixed mode'. 'Channel:' is a dropdown menu showing '2437MHz (Channel 6)'. 'HT Channel Bandwidth:' has '20' and '20/40' buttons, with '20/40' selected. 'HT Guard Interval:' has 'Long' and 'Auto' buttons, with 'Auto' selected. 'HT Channel Mode:' has 'HT40+' and 'HT40-' buttons, with 'HT40-' selected. At the bottom, there is a blue 'Apply' button with a checkmark icon.

- **Enable Wireless.** Enable or Disable the wireless feature of your ALL0238RD. By default the Wireless feature of your ALL0238RD is enabled.
- **Broadcast SSID.** Set option to disable to hide your wireless network. By default, the SSID Broadcast is enabled.
- **SSID.** Allows you to designate a name for your ALL0238RD's wireless network.
- **Wireless Mode.** This option allows you to select the type of wireless standard you want to allow to connect to your wireless network.

- **Channel.** You may opt to change your wireless channel when you are getting poor reception. You may choose the least channel used in your area for better wireless performance.
- **Channel Bandwidth.** Here you can set your Channel Bandwidth to 20MHz and 20/40MHz. It is strongly suggested to leave this in Auto to achieve the best efficiency.
- **HT Data Rate and HT Guard Interval.** These options are recommended to be set to Auto for maximum efficiency.

Wireless Security Settings

The Wireless Security Settings page allows you to change the Security Mode, enable or disable the WPS feature of your ALL0238RD, and add a WPS enabled device by entering the needed PIN.



- **Security Mode.** Select the type of encryption you want for your wireless network.
- **WPS.** Allows you to enable or disable the WPS feature of your ALL0238RD.
- **Enrollee PIN.** Enter this PIN on the Wireless Device that will be connecting to ALL0238RD repeater to automatically configure the wireless device.
- **Registrar PIN.** Here you can enter the WPS-PIN of the Wireless Devices and click apply for the ALL0238RD to allow access and configure your wireless device automatically

Note: WPS will work only for WPA-PSK, WPA2-PSK and WPA/WPA2 encryption. Wireless Devices should also support the WPS feature to use this option.

MAC Filter Settings

The MAC Filter page will provide additional protection to your wireless network. It allows or denies Wireless Devices from accessing the ALL0238RD with the use of the MAC address which is unique for every network device.

S.No.	MAC Address	Rule	Remove
1	09:00:07:A9:B2:EB	Disable	

To add a MAC Filter:

1. Specify your preferred Policy.
 - **Disable.** Disables the application of a MAC Filter to a specific device or to all the MAC Addresses specified in the list.
 - **Allow.** Allows the specified MAC Addresses to connect to the Wireless network.
 - **Deny.** Denies the specified MAC Addresses connection to the Wireless network.

NOTE: By clicking the Apply button without specifying a MAC Address, you would be applying the selected policy to all MAC addresses on the list.

2. Enter the MAC Address of the device where the selected Policy would apply.

To know the MAC Address of your computer, you may simply do the following:

- a. On the Start menu click **Run**.
- b. On the input box of the Run window, type in: **cmd** to open the command prompt.
- c. On the command prompt key in **ipconfig/all**.

- d. Locate the **Ethernet Adapter Ethernet** or **Ethernet Adapter Local Area Network** section and find the 'Physical Address' (MAC Address).
3. Click the button located beside the MAC Address text box to apply changes.

To remove a MAC Filter:

1. Click the button that corresponds to the MAC address that you wish to remove from the list.

Device Admin

The Device Admin page allows you to configure various system oriented settings such as changing the devices IP Address, backing up the current configuration settings, upgrading the device's firmware, restoring the device from a previously saved configuration file, resetting the device to its factory default, and defining a user password for the Web UI.

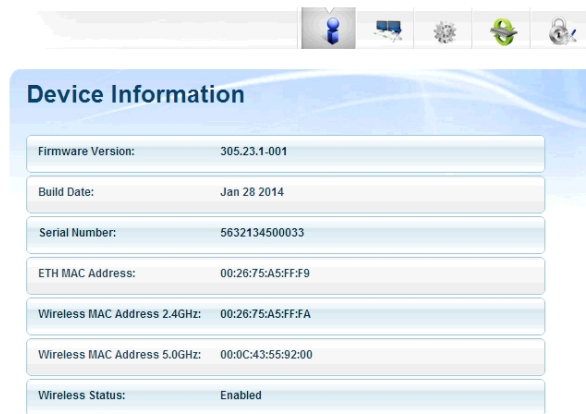


The Device Admin page has the following submenus:

- Device Info
- Local Network
- Configuration Settings
- Firmware upgrade
- System Password

Device Information

Allows you to view basic device information regarding your ALL0238RD such as the firmware version and its build date, the device's serial number, MAC addresses of various interfaces, and view the Wireless' status as well.

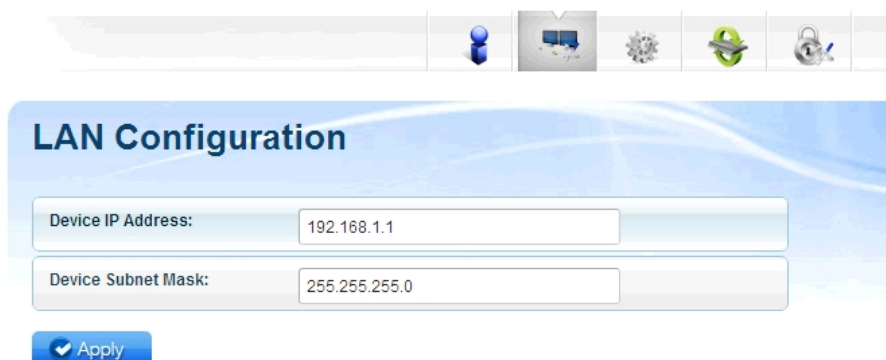


- **Firmware Version.** Shows the current firmware version of the device
- **Build Date.** Shows the date the firmware was created.
- **Serial Number.** Shows the device's serial number.
- **ETH/Bridge and Wireless MAC address.** Shows the MAC address of the different Interfaces.
- **Wireless Status.** Shows the wireless device's wireless status.

LAN Configuration

The LAN Configuration page allows you to specify a device IP address and Device subnet mask your ALL0238RD will use.

Note: Change this IP address if you are using two ALL0238RD on the same network to avoid the occurrence of IP address conflict within your network.



LAN Configuration

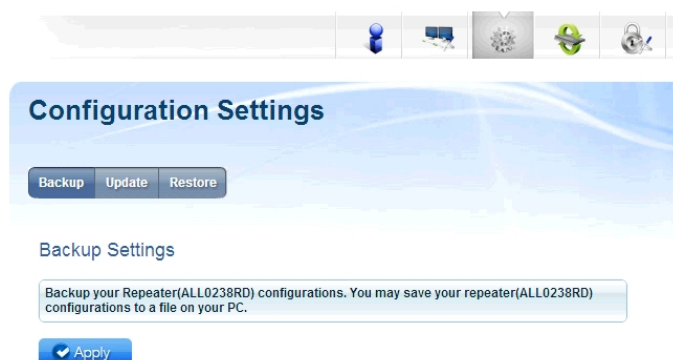
Device IP Address: 192.168.1.1

Device Subnet Mask: 255.255.255.0

✓ Apply

Configuration Settings

The configuration settings page allows you to backup your ALL0238RD's current settings, do a firmware upgrade, and restore an existing configuration by using the backed up file.



Configuration Settings

Backup Update Restore

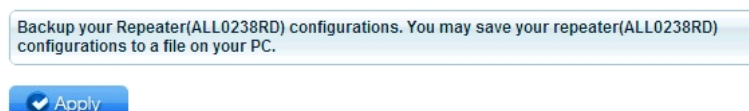
Backup Settings

Backup your Repeater(ALL0238RD) configurations. You may save your repeater(ALL0238RD) configurations to a file on your PC.

✓ Apply

- **Backup.** Allows you to save the current configuration of ALL0238RD. Default file name for the backup file will be "**RT2880_Settings.dat**". Click **Apply** to start saving your configuration.

Backup Settings



Backup your Repeater(ALL0238RD) configurations. You may save your repeater(ALL0238RD) configurations to a file on your PC.

✓ Apply

- **Update.** Here you can load the saved configuration of your ALL0238RD. Click browse and load the saved settings then click the Apply button.

Update Settings

Update Repeater(ALL0238RD) settings. You may update your Repeater(ALL0238RD) settings using your saved files.

Settings File Name:

Datei auswählen

Keine ausgewählt

✓ Apply

- **Restore.** Click on the apply button to reset the unit back to its default factory settings.

Backup

Update

Restore

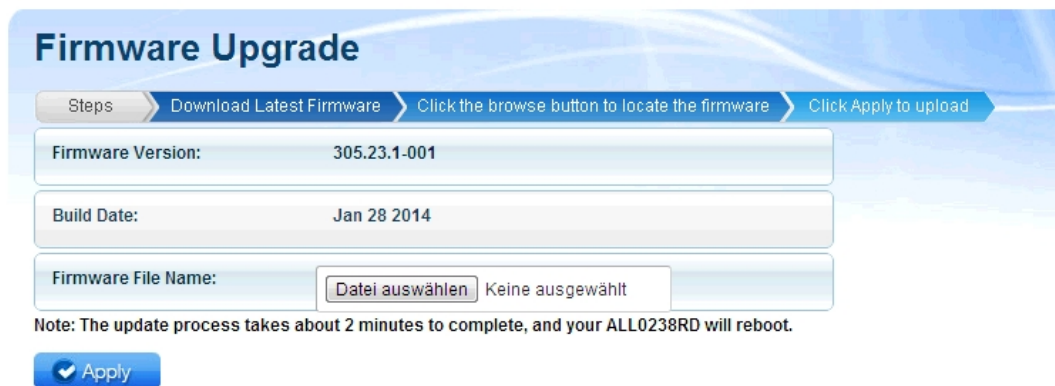
Factory Default Settings

Click 'Reset' button to reset the Repeater(ALL0238RD) to factory default configuration.

Reset

Firmware Upgrade

The Firmware Upgrade page allows you to update the firmware of your device for future changes and enhancement, however, it is strongly suggested to only upgrade your device firmware if it was advised by ALLNET GmbH Computersysteme. You may download the latest firmware for your device at www.allnet.de/downloads.html .



The screenshot shows a web interface titled "Firmware Upgrade". At the top, there is a progress bar with four steps: "Steps", "Download Latest Firmware", "Click the browse button to locate the firmware", and "Click Apply to upload". The "Download Latest Firmware" step is currently active. Below the progress bar, there are three input fields: "Firmware Version:" with the value "305.23.1-001", "Build Date:" with the value "Jan 28 2014", and "Firmware File Name:". The "Firmware File Name:" field has a button labeled "Datei auswählen" and the text "Keine ausgewählt" next to it. Below these fields, there is a note: "Note: The update process takes about 2 minutes to complete, and your ALL0238RD will reboot." At the bottom, there is a blue button with a checkmark and the text "Apply".

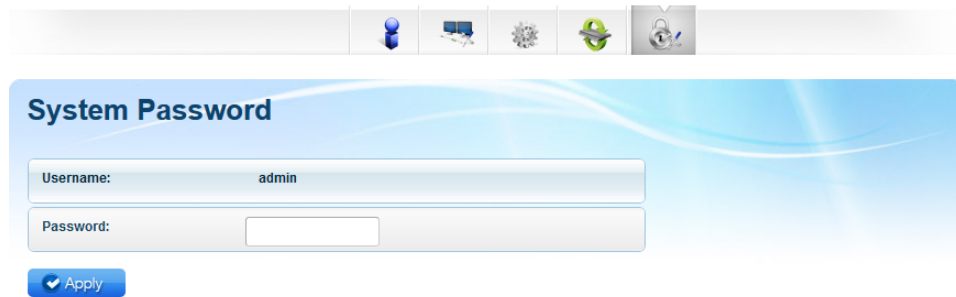
To upgrade the firmware:

1. From the System page, click the Firmware Upgrade button.
2. Click on the **Browse** button and locate and open the firmware for your ALL0238RD (.img – data format).
3. Click **Apply** to start the update. Wait for the firmware upgrade to finish and for the device to reboot. You will be redirected to the Homepage of your ALL0238RD.

Note: It is strongly recommended to only use firmware officially released by ALLNET GmbH Computersysteme. Using third party firmware will void the warranty of the device.

System Password

Set a password on the web user interface to prevent other users from getting access to the web UI and avoid unwanted changes from your settings. To add a system password, simply type in your preferred password and click on apply to activate this feature. To disable the password, simply remove the password and click apply to save your settings.



The screenshot shows a web interface for setting a system password. At the top, there is a navigation bar with several icons: a blue sphere, a computer monitor, a gear, a green circular arrow, and a padlock. Below this, the main content area has a light blue background with a wavy pattern. The title "System Password" is displayed in bold. There are two input fields: "Username:" with the value "admin" and "Password:" with an empty text box. Below these fields is a blue button with a checkmark icon and the text "Apply".

Note: Forgotten passwords cannot be recovered. Reset the device to its factory default by pressing the reset button found beside the Ethernet port of ALL0238RD for 30 seconds.

Device Status

The device status page shows the current status of the AP, and also the wireless devices that are currently connected wirelessly to your ALL0238RD.

Device Status

AP Client Connection Status

Connection Status:	Connected
Extension Access Point:	ALLNET.2014-5Ghz

If you are connecting using Wifi, please reconnect to new SSID (e.g. Router_SSID (2.4Ghz / 5.0Ghz) (R)) to access the Web User Interface.

Client List

MAC Address
AA-AA-AA-AA-AA-AA

WPS

WPS or Wifi Protected Setup makes it easier for you to connect your ALL0238RD to your wireless router and the ALL0238RD to your wireless devices with a simple push of a button.



To connect the ALL0238RD to a Wireless Router via WPS:

1. Press the WPS button of ALL0238RD for 5 seconds.
2. Press the WPS button on your router for 2 seconds.

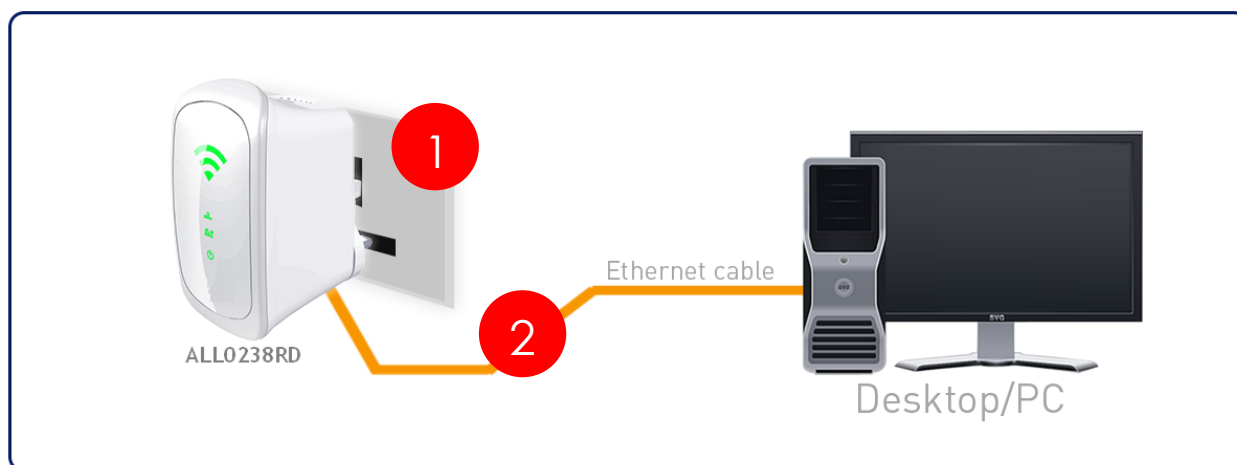
To connect the ALL0238RD to a Wireless Device via WPS:

1. Press the WPS button of ALL0238RD for 2 seconds.
2. Press the WPS button on the Wireless Device for 2 seconds.

NOTE: To accomplish a successful connection through WPS, simply accomplish the process correctly within two minutes. It is also important to ensure that the WPS feature of the device is enabled and must also be supported on the wireless router and even the wireless devices that will be connected to your ALL0238RD.

Setup the Device

In setting up your device kindly follow the instructions provided below. A diagram has also been provided for additional reference.



1. Plug your ALL0238RD to a power outlet.
2. Connect your ALL0238RD to the computer using an Ethernet cable through their respective Ethernet ports.
3. Launch a web browser and you will automatically be redirected to the Web User Interface of your ALL0238RD. If in any case it does not open, kindly type **192.168.1.1** on the address bar and hit enter.

Available Wireless Networks									
Channel	GHz	SSID	MAC Address	Security	Signal	Mode	Type	WPS	Connect
6	2.4	ALLNET.2014	00:0f:c9:0e:9d:52	WPA2		11b/g/n	Infrastructure	NO	
11	2.4	ALLNET-Guest	50:a7:33:5c:ec:58	WPA2		11b/g/n	Infrastructure	NO	
1	2.4	ALL02850N-Dauertest	00:0f:c9:0e:a5:cc	WPA2		11b/g/n	Infrastructure	NO	
11	2.4		50:a7:33:9c:ec:58	WPA2		11b/g/n	Infrastructure	NO	

4. Select your SSID (wireless network/wifi name) from the list and click the Connect button.
5. Type the password for the wireless network of your router and click apply. The ALL0238RD will reboot and will redirect to the user interface with the status dependent on the frequency band of your wireless router:

For 2.4GHz wireless networks

Firmware version: 305.23.1-001



For 5.0GHz wireless networks



6. Disconnect the Ethernet cable from ALL0238RD and computer then place the device at the location where it can get sufficient reception from your wireless router.

Appendix

FCC Statement

This equipment has been tested and complies with the specifications 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 according to 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 is found 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 or devices
- Connect the equipment to an outlet other than the receiver's
- Consult a dealer or an experienced radio/TV technician for assistance

Safety Warnings

For your safety, be sure to read and follow all warning notices and instructions.

- Do not open the device. Opening or removing the device cover can expose you to dangerous high voltage points or other risks. Only qualified service personnel can service the device. Please contact your vendor for further information.
- Do not use your device during a thunderstorm. There may be a risk of electric shock brought about by lightning.
- Do not expose your device to dust or corrosive liquids.
- Do not use this product near water sources.
- Make sure to connect the cables to the correct ports.
- Do not obstruct the ventilation slots on the device.



CE-Declaration of Conformity

For the following equipment:

Germering, 20th of March, 2014

WLAN N Access Point/ Repeater Dual-Band

ALL0238RD



The safety advice in the documentation accompanying the products shall be obeyed. The conformity to the above directive is indicated by the CE sign on the device.

The ALLNET ALL0238RD conforms to the Council Directives of 1999/5/EC.

This equipment meets the following conformance standards:

EN 55022:2010+AC:2011 Class B
EN 61000-3-2: 2006+A1:2009+A2:2009 Class A
EN 61000-3-3: 2008
EN 55024:2010
EN 301 489-1 V1.9.2 (2011-09)
EN 301 489-17 V2.2.1 (2012-09)
EN 300 328 V1.8.1 (2012-06)
EN 301 893 V1.7.1 (2012-06)
EN 62311:2008

This equipment is intended to be operated in all countries.

This declaration is made by
ALLNET GmbH Computersysteme
Maistraße 2
82110 Germering
Germany

Germering, 20.03.2014


Wolfgang Marcus Bauer
CEO



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Please direct all inquiries to:

Email:

support@allnet.de

Snail Mail:

ALLNET GmbH

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