



Baudcom BD-R211W-AC5 Mesh Router wifi with 2ports Wired User Manual

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Baudcom BD-R211W-AC5 Mesh Router wifi with 2ports Wired User Manual



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Product Introduction

Product Description

Thank you for choosing the 2LAN+WiFi MESH ROUTER Unit .The V-SOL Dual Band 802.11ac wireless router

devices the mesh router delivers high performance wireless connectivity for Small Office and Home(SOHO) deployments and support dual band concurrent operation at 2.4GHz and 5GHz with combined throughput of 1.2Gbps(300Mbps at 2.4GHz and 867Mbps at 5GHz). The mesh router support Wi-Fi EasyMesh that brings a standards based approach to Wi-Fi networks that utilize multiple access points (APs), combining the benefits of easy to use, self-adapting Wi-Fi with greater flexibility in device choice that comes with interoperable Wi-Fi EasyMesh devices.

Figure 1-1-1: 2LAN+WiFi(Dual band) MESH Router



Special features

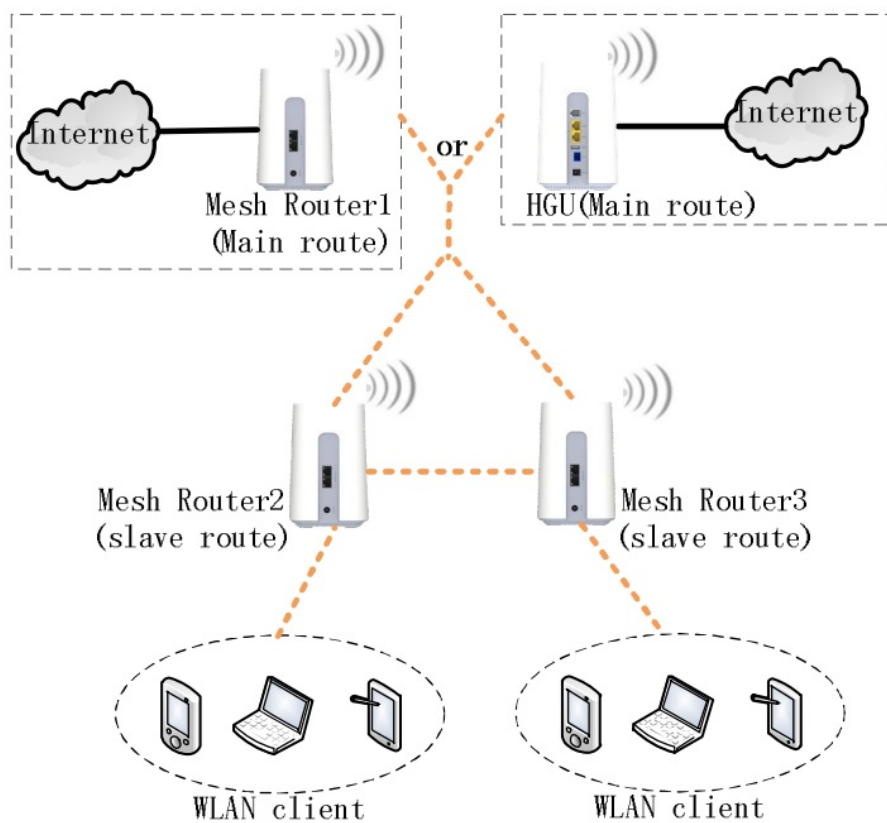
- WAN Function: PPPoE,DHCP Client,Static IP
- QoS:WMM
- Support UPnP, Port forwarding, Guest network
- Support Wi-Fi CERTIFIED EasyMesh
- Support 802.11n WiFi(2T2R) and 802.11ac(2T2R) function.
- Support NAT, Firewall function.
- Support IPv4

Technical parameters

Technical items	Descriptions
LAN interface	1*10/100/1000Mbps auto adaptive Ethernet interfaces, 1*10/100Mbps auto adaptive Ethernet interfaces, Full/Half, RJ45 connector
WiFi interface	Compliant with IEEE802.11b/g/n/ac 2.4GHz Operating frequency: 2.400-2.483GHz (WiFi 4) 5.0GHz Operating frequency: 5.150-5.825GHz (WiFi 5 wave 2) WiFi: MIMO 2×2 For 2.4GHz, MIMO 2×2 For 5.0GHz, 4×5dBi external antenna, rate up to 1.166Gbps, Multiple SSID TX power: 11n-22dBm/11ac-24dBm
LED	3, For Status of SYS, LAN1, LAN2
Operating Enviroment	Temperature: 0°C +50°C Humidity: 10% 90% non-condensing
Storing Enviroment	Temperature: -30°C +60°C Humidity: 10% 90% non-condensing
Power Supply	DC 12V/1A, 10W
Dimension	115mm×115mm×180mm(L×W×H)
Net weight	560g

Application chart

Figure 1-4-1: Application chart



Panel description

Interface panel

Figure 1-5-1: Interface panel



Name	Function
WAN/LAN	Connect PC or other devices with Ethernet port by Cat5 cable, RJ-45 connector.
DC 12V	Connect with power adapter. DC 12V, 1.5A.
Round button	Press button quickly to form a network with other mesh devices.
RST	Press RST button over 10 seconds to restore router to factory default.

Indication Panel

Figure 1-5-2: Indication panel



Quick Installation

Standard Packing Contents

When you receive our products, please check carefully to make sure that our products whether have some defects or not. If something wrong with shipping, please contact carrier; other damage or lack of some parts, please contact with dealer.

Contents	Description
2LAN+WiFi Router	1 pc
Power Adapter	1 pc
Installation Guide	1 pc

Quick Installation

1. Apply power to the unit. Push the power button.
2. After the Router is power ON, Indicators should light up as for normal operation. Please refer to the Layout Description section of this installation manual for normal LED activity.
3. Check all signal levels and services on all the Router communication ports.

Unit Installation Adjustment

Installing the wireless router on a horizontal surface (Bench top)

Put the wireless router on a clean, flat, sturdy bench top. You must keep the clearance for all sides of the unit to more than 10cm for heat dissipation.

Set up Connection

Set up wired connection

Connect PC with wireless router Ethernet port by RJ-45 CAT5 cable.

Set up wireless connection

Choose the wireless network name (SSID) "VSOL_5G_XXXXXX", default security mode is WPA2 mixed, password is 12345678.

As master router

You need to configure WAN to connect to the Internet. You can decide whether to turn on the mesh function of route according to your needs.

As slaver router

You just need to press the round button to connect to the master router

Configuration

After finishing the basic connection configuration, you can use its basic function. In order to satisfy individuation service requirements, this chapter provides you parameter modification and individuation configuration description.

Login

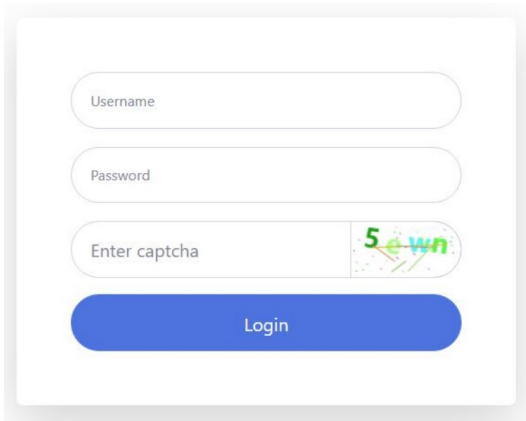
The device is configured by the web interface. The following steps will enable you to login:

1. Conform "2.2 Quick Installation" to install;
2. The device default IP is 192.168.1.254;
3. Open web browser, type the device IP in address bar;

4. Entry of the username and password will be prompted. Enter the default login User Name and Password:

The default login User Name of administrator is “admin”, and the default login Password is “system”.

Figure 3-1-1: Login



A login form with four input fields: 'Username', 'Password', and 'Enter captcha' (which includes a captcha image showing the word 'Sewn'). Below these fields is a blue 'Login' button.

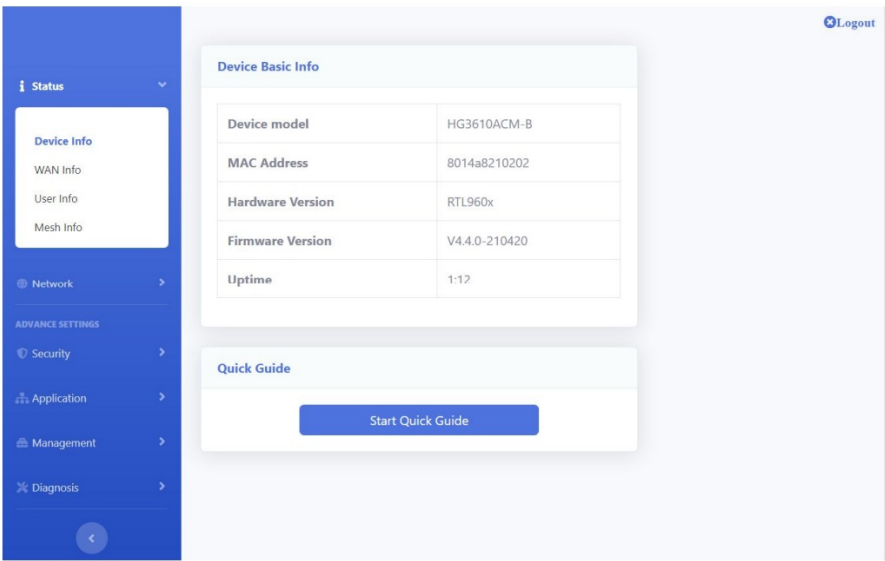
Status

This part shows the main information of product.

Device Info

This page shows the device basic information, such as device model, device MAC, hardware version, and firmware version and so on.

Figure 3-2-1: Device Information



The screenshot shows a web interface with a blue sidebar on the left containing a menu with items like 'Status', 'Device Info', 'WAN Info', 'User Info', 'Mesh Info', 'Network', 'ADVANCE SETTINGS', 'Security', 'Application', 'Management', and 'Diagnosis'. The main content area displays 'Device Basic Info' in a table:

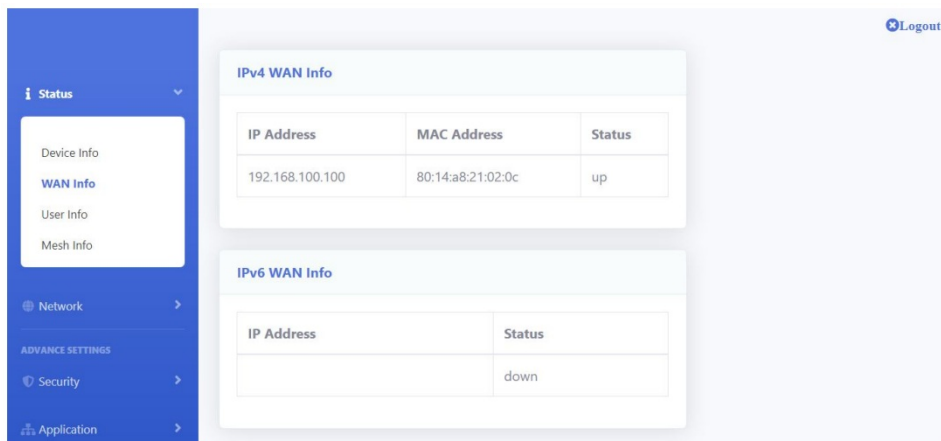
Device model	HG3610ACM-B
MAC Address	8014a8210202
Hardware Version	RTL960x
Firmware Version	V4.4.0-210420
Uptime	1:12

Below the table is a 'Quick Guide' section with a 'Start Quick Guide' button. A 'Logout' link is visible in the top right corner.

WAN Connection Info

This page shows IPv4/IPv6 WAN connection information that you have configured.

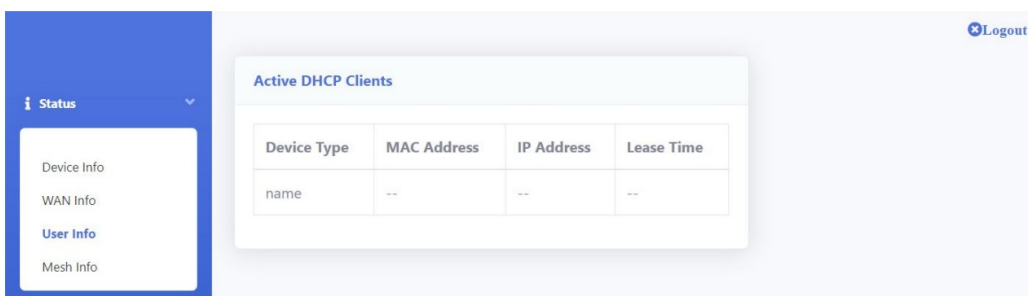
Figure 3-2-2: WAN Information



User Information

This page shows information of DHCP clients, including client name, MAC address, IP address, lease time.

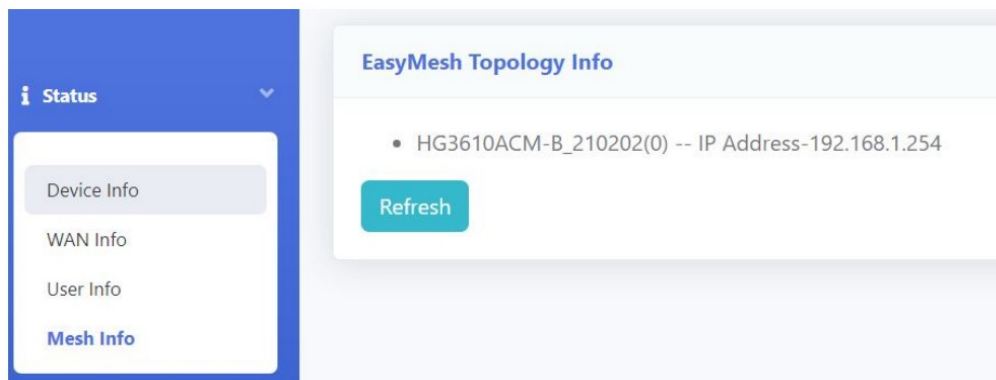
Figure 3-2-3: User info



Mesh Information

This page shows mesh information.

Figure 3-2-4: Mesh Info

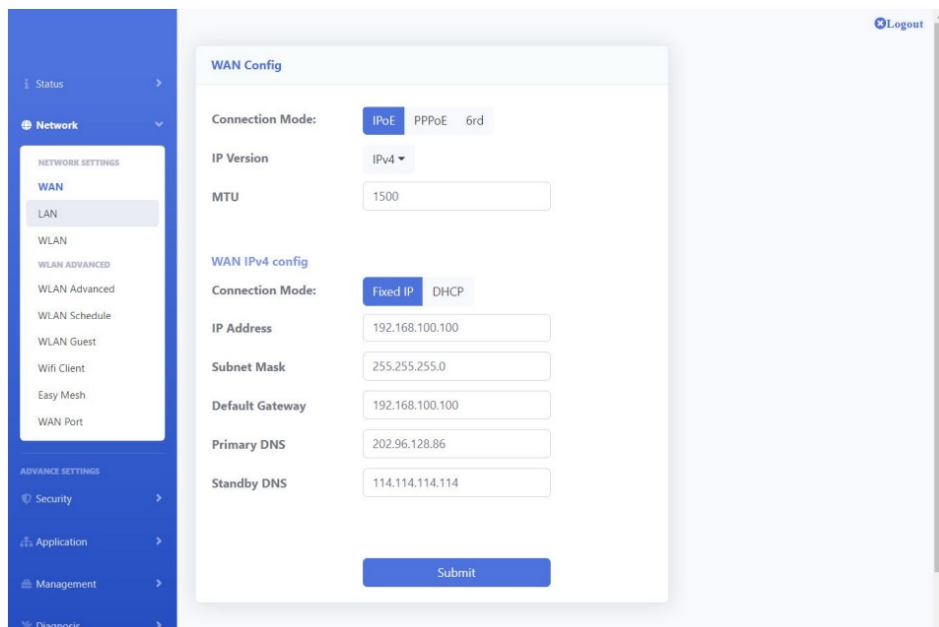


Network

WAN

This page allows you to select WAN connection.

Figure 3-3-1: WAN



Parameters	Illustration
Connection Mode	<p>IPoE: Set the IP address manually or automatically obtain an IP address from your ISP.</p> <p>PPPoE: Select this option if your ISP uses PPPoE.</p> <p>6rd: IPv6 over IPv4.</p>
IP Version	<p>IPv4: WAN connections use IPv4 protocol.</p> <p>IPv6: WAN connections use IPv6 protocol.</p> <p>IPv4 & IPv6: WAN connections use both IPv4 and IPv6 protocol.</p>
MTU	<p>MTU: max transfer unit.</p> <p>Default Value: 1500 in bridge mode, 1492 in route mode.</p>
Request DNS	<p>Enable: DHCP server assigns DNS.</p> <p>Disable: set DNS manually.</p>

LAN Settings

IPv4

This page allows you to do some LAN settings, such as LAN IP address, DHCP server

Figure 3-3-2: IPv4 configuration

Status

Network

NETWORK SETTINGS

WAN

LAN

WLAN

WLAN ADVANCED

WLAN Advanced

WLAN Schedule

WLAN Guest

Wifi Client

Easy Mesh

WAN Port

LAN

IPv4 IPv6

Enable DHCP Server

IP Address

Subnet Mask

Lease Time

Start Ip Address

End IP Address

Submit

Parameters	Illustration
IP Address	LAN IP address.
Subnet Mask	LAN IP mask.
Disable DHCP Server	DHCP Server is disabled.
Enable DHCP Server	Enable DHCP server. Start IP Address: The start IP address of address pool. End IP Address: The end IP address of address pool. Lease Time: Lease time of the IP address.

IPv6

This page allows you to configure LAN IPv6 address, LAN IPv6 DNS and IPv6 prefix.

Figure 3-3-3: IPv6 configuration

Status

Network

NETWORK SETTINGS

WAN

LAN

WLAN

WLAN ADVANCED

WLAN Advanced

WLAN Schedule

WLAN Guest

Wifi Client

Easy Mesh

WAN Port

LAN

IPv4 IPv6

Enable DHCP Server

IPv6 Address

IPv6 LAN DNS Mode

LAN Prefix Delegation

START_IP_ADDRESS(IPv6)

End IP Address(IPv6)

Submit

Parameter	Illustration
IPv6 address	LAN IPv6 address.
LAN DNS	Choose how to get IPv6 DNS.
LAN IPv6 prefix	LAN IPv6 address prefix.

WLAN

This page allows you to configure wireless basic settings, including wireless switch, SSID, encryption and password.

Figure 3-3-4:WLAN configuration

The screenshot shows the 'WLAN' configuration page. On the left, a sidebar lists 'Network' settings, with 'WLAN' highlighted. The main content area is titled 'WLAN' and contains the following fields and controls:

- 5G** and **2.4G** band selection buttons.
- Disable WLAN Interface** toggle switch.
- SSID** text input field containing 'RTL867x-ADSL-WLAN1'.
- Encryption** dropdown menu set to 'WPA2 Mixed'.
- Encryption Key** text input field with masked characters (dots).
- Submit** button.

WLAN Advanced

This page allows you to configure wireless advanced settings, including band, channel width, channel number and so on.

Figure 3-3-5: WLAN Advanced

The screenshot shows the 'WLAN Advanced' configuration page. On the left, a sidebar lists 'Network' settings, with 'WLAN Advanced' highlighted. The main content area is titled 'Advanced' and contains the following fields and controls:

- 5G** and **2.4G** band selection buttons.
- Band** dropdown menu set to '5 GHz (A+N+AC)'.
- Channel Width** dropdown menu set to '80MHZ'.
- Channel Number** dropdown menu set to '44'.
- Hide SSID** dropdown menu set to 'Disable'.
- Block Relay** dropdown menu set to 'Disable'.
- Short GI** dropdown menu set to 'Enable'.
- WMM** dropdown menu set to 'Enable'.
- 802.11k Support** dropdown menu set to 'Disable'.
- 802.11v Support** dropdown menu set to 'Disable'.
- Fragment Threshold** text input field containing '2346'.
- RTS Threshold** text input field containing '2347'.
- Beacon Interval** text input field containing '100'.
- Submit** button.

Parameter	Illustration
Band	Choose 5G WiFi band.
Channel width	WLAN channel width.
Channel Number	WLAN channel, default value is auto.
Hide SSID	Disable or Enable transmit broadcast in WLAN
Block Relay	Disable or Enable isolate WLAN clients
SGI	Short Guard Interval. The Guard Interval is used to ensure that distinct transmissions occur between the successive data symbols transmitted by a device. To increase data rates, the 802.11n standard added optional support for a 400 nsec guard interval. This would provide an 11% increase in data rates.
WMM	WiFi MultiMedia. Video and audio traffic will have higher priority when WMM is enabled.
802.11k	This option will be enabled when the mesh function is enabled.. The 802.11k protocol can inform the client of the information of the nearby nodes and guide the client to connect from the slow node to the fast node.

802.11v	This option will be enabled when the mesh function is enabled. The 802.11v protocol allows terminal devices to exchange network topology information, including the RF environment. And balance the load of nodes.
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WLAN Schedule

This page allows you setup the wireless schedule rule. Do not forget to configure the system time before enabling this feature. Supports two timing modes, default 'timing close'.

Figure 3-3-6: WLAN Schedule

Wlan Schedule Setting

This page allows you setup the wireless schedule rule. Do not forget to configure the system time before enabling this feature.Supports two timing modes, default 'timing close'.

timing close : Set the time period from 'From' to 'To', wireless will be turned off during this time period.

timing open : Set the start time, and the wireless will be turned on from the start time.

Enable Wireless Schedule

Mode Selection

timing close

timing open

Submit

Status	Days	FromTime	ToTime	Action
Add/Edit	Reset	Reset All		

WLAN Guest

This page allows you to configure the guest network.

Figure 3-3-7: WLAN Guest

WLAN Guest

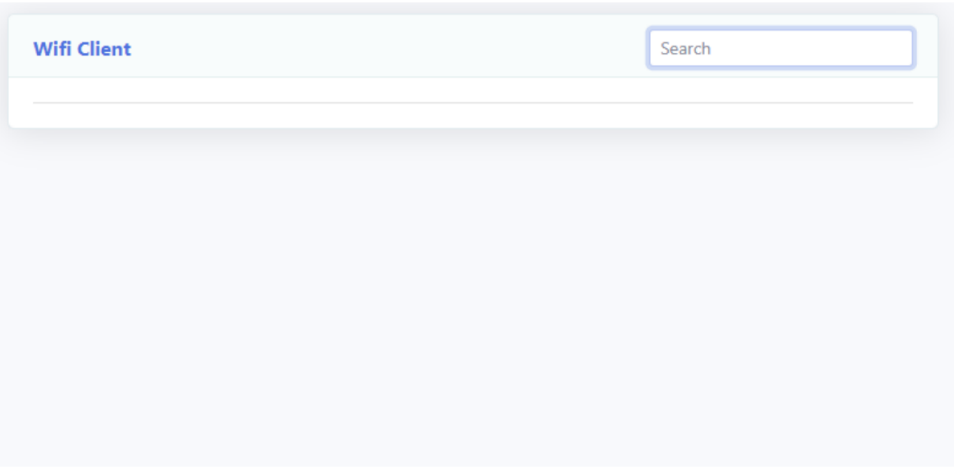
Enable Guest Wlan

Submit

WLAN Client

This page displays the clients connected to the wireless network. You can enter keywords in the search box in the upper right corner to search the client.

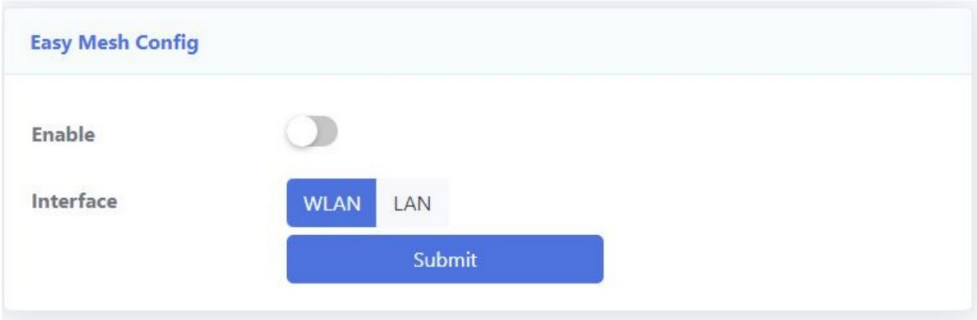
Figure 3-3-8: WLAN Client



Easy Mesh

This page allows you to enable or disable mesh function of wireless router and select mesh network interface.

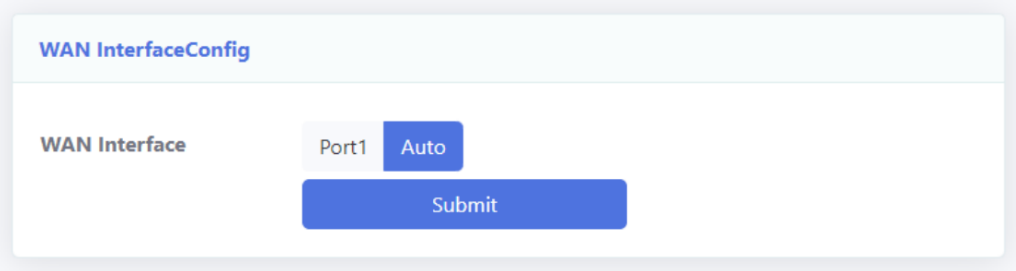
Figure 3-3-9: Easy Mesh



WAN port

The WAN interface is the only network used to connect to the Internet. When you select Port 1, this port will be set as WAN interface. And when you select AUTO, the wireless routing will automatically select a port as WAN interface according to your network environment.

Figure 3-3-10: WAN port



Security

URL Filtering

This page allows you to configure URL filter.

Figure 3-4-1: URL Filtering

URL Filtering

Enable URL Filtering

☐

Submit

URL Filter Rule List

URL Address

Add

Delete Selected

Keyword Filter Rule List

Keyword

Add

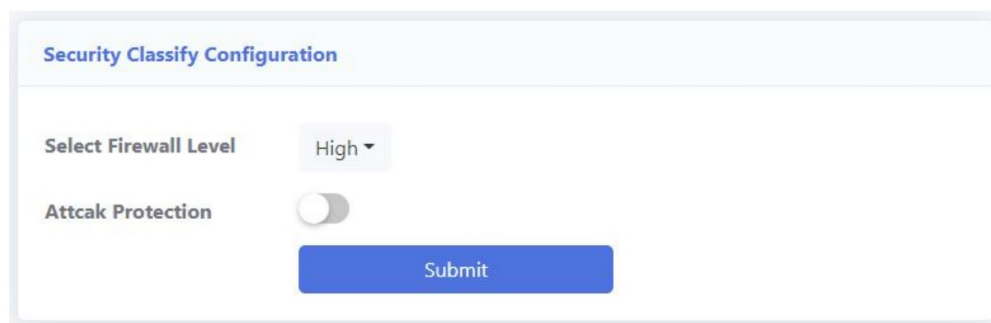
Delete Selected

Parameter	Illustration
URL Filtering	Enable or Disable URL Filter
URL Filter Rule List	<p>URL List you want to deal with.</p> <p>Click “Add” button to add URL item to the list.</p> <p>Select URL Address and then click “Delete selected” button to remove URL items from the list.</p>
Keyword Filter Rule List	<p>URL List you want to deal with.</p> <p>Click “Add” button to add Keyword to the list.</p> <p>Select Keyword and then click “Delete selected” button to remove Keyword items from the list.</p>

Firewall

This page allows you to configure firewall level and attack protection function

Figure 3-4-2: Firewall Level



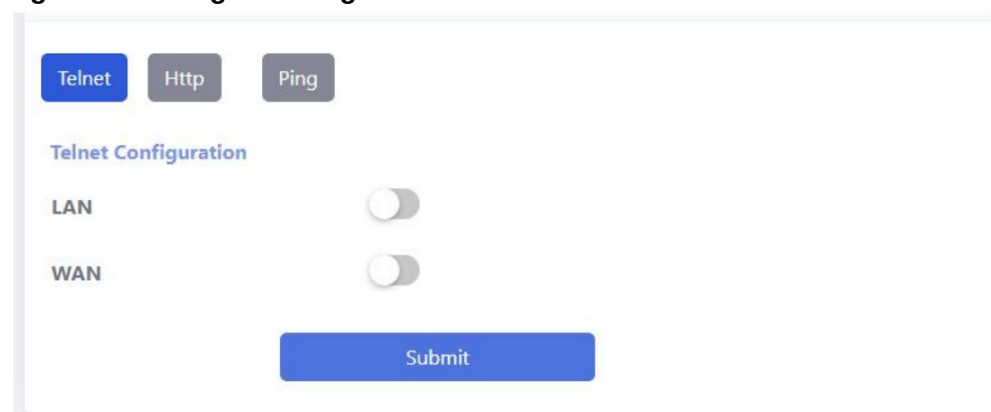
The interface is titled "Security Classify Configuration". It contains two settings: "Select Firewall Level" with a dropdown menu currently set to "High", and "Attack Protection" with a toggle switch that is currently turned off. A blue "Submit" button is located at the bottom right of the configuration area.

Parameter	Illustration
Firewall Level	Low: Protect nothing. High: Forbid telnet service, Forbid Port Scan, No access to devices from WAN port, Denial of Service protections.

Login Privilege

This page is used to configure the access control and common ports on the upstream and downstream directions. By default, the wireless router can't be accessed from WAN side by telnet, web and so on.

Figure 3-4-3: Login Privilege



The interface shows three tabs: "Telnet" (selected), "Http", and "Ping". Below the tabs is the "Telnet Configuration" section. It contains two toggle switches: "LAN" and "WAN", both of which are currently turned off. A blue "Submit" button is located at the bottom right of the configuration area.

Application

NAT

This page allows you to configure virtual server. You should create a wan connection with NAT function enabled before you configure the virtual server. After you click the "Add/Edit" button, you will see the page show as in Figure 3-48. You can select the rule and then click the "delete" button to remove service items from the service table

Figure 3-5-1: Virtual Server Configuration

NAT --Virtual Server Configuration

Nat Virtual Server ☐

server name	External IP	External Port	Protocol	Server IP	Source Port
<div>Add/Edit</div> <div>Delete Selected</div>					

Figure 3-5-2: Virtual Server configuration

NAT --Virtual Server Configuration

server name

External IP

External Start Port

External End Port

Protocol

TCP/UDP ▾

Server IP

source start port

source end port

Add

DMZ

This page allows you to configure DMZ server

Figure 3-5-3: DMZ configuration

NAT -- DMZ Hosts

DMZ Host: ☐

Submit

DDNS

Dynamic DNS services allow you to change a dynamic IP address to a static host name in any multiple domains, allowing your router to be more easily accessed from different locations on the Internet.

Figure 3-5-4: DDNS

Dynamic DNS

Enalbe DDNS Service

Hostname	Username	Service	Interface
----------	----------	---------	-----------

Add

Delete Selected

Figure 3-5-5: Add DDNS

Add dynamic DNS

D-DNS provider

DynDNS.org ▼

Hostname

Interface

LAN/br0 ▼

Username

Password

Email

Add

Parameter	Illustration
D-DNS Provider	Choose DDNS service provider.
Host name	Set host name of the device.
Interface	The interface of accessing by DDNS
Username	The username which is used to access DDNS server.
Password	The password which is used to access DDNS server.

UPNP

This page is used to configure UPnP. When the router opens UPnP, if the software in the the user's device also supports UPnP protocol, the router will open the corresponding virtual server port according to the requirements of the user software.

Figure 3-5-6: UPNP configuration

UPnP Configuration

UPnP

Submit

MQTT

This page allows you to to configure MQTT.

Figure 3-5-7: MQTT Configuration

MQTT Setting

MQTT Enable

Server Address

Username

Password

Submit

VPN

This page allows you to configure VPN. You can choose PPTP or L2TP to connect to VPN.

Figure 3-5-8: PPTP Configuration

VPN

PPTP

L2TP

PPTP Enable

Interface	Service-Name	Status
-----------	--------------	--------

Add

Delete Selected

Figure 3-5-9: L2TP Configuration

VPN

PPTP
L2TP

L2TP Enable

Interface	Server IP	Tunnel Authentication	PPPAAuthentication	MTU	Default Gateway	Status
<div> Add Delete Selected </div>						

Time

This page allows you to configure NTP parameters. The router can synchronize the time according to your configuration.

Figure 3-5-10: Time

Time

Fri Jun 25 16:40:47 CST 2021

Time Zone Select

Asia/Beijing Shanghai (UTC+08:00)

Daylight Saving Time

SNTP Client Update

Submit

Management

User Management

This page allows you to change login password of current user.

Figure 3-6-1: User management

The password must contain at least 6 characters.

The password must Input Max 16 characters.

The password must contain at least two of the following combinations:
0-9, a-z, A-Z, Special characters (_ / @ ! ~ # \$ % ^ * () + : ?).

Username:

admin

Old Password:

New Password:

Confirm Password:

Submit

Configuration Management

On this page, you can click “Reset” button to Restore factory default of the device. After restored, it will restart

automatically. You can click “Download” to backup the current configuration of the route. And You can select the file and click “upload” to restore the configuration.

Figure 3-6-2: Configuration management

The interface consists of three stacked panels. The top panel, titled "Load Default", contains a blue "Reset" button. The middle panel, titled "Current Configuration Management", contains a blue "Download" button. The bottom panel, titled "Upload Configuration Management", contains a file selection area with a "Choose File" button and the text "No file chosen", and a blue "Upload" button below it.

Upgrade

This page allows you to upgrade the device. You can select the upgrade firmware and click “Upgrade” to upgrade device. Please keep the power on, otherwise this device will be damaged. It will reboot automatically when finish upgrade.

Figure 3-6-3: Device upgrade

The interface has a single panel titled "Upgrade Image". It contains a paragraph of instructions: "This page allows you upgrade the firmware to the newer version. Please note that do not power off the device during the upload because this make the system unbootable." Below the text is a file selection area with a "Choose File" button and the text "No file chosen". At the bottom of the panel is a button labeled "Upgrade".

Reboot

This page allows you to reboot the device. The process of reboot will take several minutes.

Figure 3-6-4:Reboot

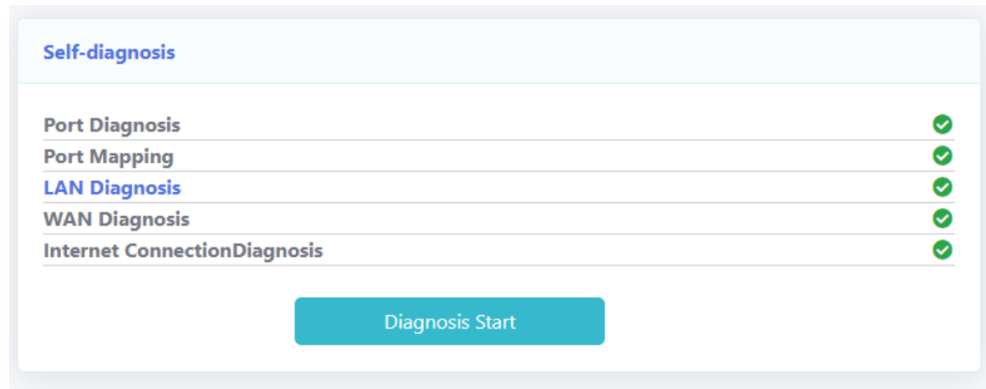
The interface consists of a single panel titled "Commit/Reboot". It contains a blue button labeled "Commit and Reboot".

Diagnose

Self-diagnosis

On this page, you can click “ Diagnosis to star” to diagnose whether the network connection is normal.

Figure 3-7-1: Self-diagnosis



FAQ

Q: All indicators are not lit?

A:

- (1) Power is off or power adapter is bad.
- (2) Indicator LED switch is turned off.

Q: LAN indicators are not lit?

A:

- (1) Indicator LED switch is turned off.
- (2) The cable breaks down or connection loosened.
- (3) The cable type incorrect or too long.

Q: PC can't visit web UI?

A:

- (1) PC and HGU are not in the same network fragment. By default, LAN IP is 192.168.1.254/24.(1) PC and HGU are not in the same network fragment. By default, LAN IP is 192.168.1.254/24.
- (2) The cable breaks down.
- (3) IP conflict or have loopback(1) PC and HGU are not in the same network fragment. By default, LAN IP is 192.168.1.254/24.

Q: User can't surf the Internet normally

A:

- (1) PC has set a wrong IP and gateway or network is bad.
- (2) There is loopback or attack in network.
- (3) Route mode WAN connection doesn't get an IP or DNS is disabled.

Q: Unsuccessful MESH, Slave Router indicators always blinking.

A:

- (1) 'Easy MESH' function is not turned on
- (2) Slave Router had MESH before, factory reset Slave router and reconfigure

Q: HGU stops to work after working for some time.

A:

- (1) Power supply is not working properly.
- (2) The device overheats.



Documents / Resources

 <p>Model: BD-R211W-AC5 2LAN/WIFI (Dual Band) MESH ROUTER USER MANUAL Version: V1.0 Release Date: 2019-04</p>	<p>Baudcom BD-R211W-AC5 Mesh Router wifi with 2ports Wired [pdf] User Manual BD-R211W-AC5 Mesh Router wifi with 2ports Wired, BD-R211W-AC5, Mesh Router wifi with 2ports Wired, Router wifi with 2ports Wired, wifi with 2ports Wired, 2ports Wired</p>
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References

- [🏠 Home - Baudcom](#)