



BiDaE

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# LB60004G

## User Manual

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## Regulatory Compliance Statements

### FCC Warning Statement

This device 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 with radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference with 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.

1.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

2.

This device complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. To maintain compliance with FCC RF exposure requirements, avoid direct contact to the transmitting antenna during transmitting.

3.

Any changes or modifications (including the antennas) made to this device that are not expressly approved by the manufacturer may void the user's authority to operate the equipment.

#### FCC Label Statement

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.
2. This device must accept any interference received, including interference that may cause undesired operation.

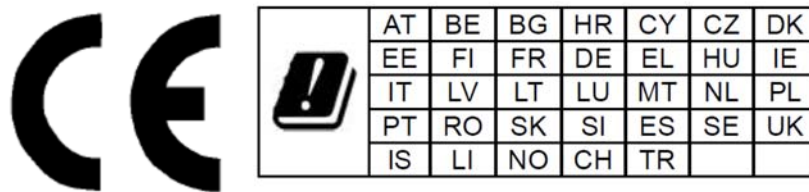
#### RF exposure warning

This equipment must be installed and operated in accordance with provided instructions and the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter. End-users and installers must be provide with antenna installation instructions and transmitter operating conditions for satisfying RF exposure compliance.

#### European Conformity Statement

BiDaE Technology declares that the product is in compliance with the essential requirements and all other provisions of the RED 2014/53/EU directive.

#### CE Mark Warning



#### RoHS Statement

This device conforms to RoHS (Restriction Of Hazardous Substances) European Union regulations that set maximum concentration limits on hazardous materials used in electrical and electronic equipment.

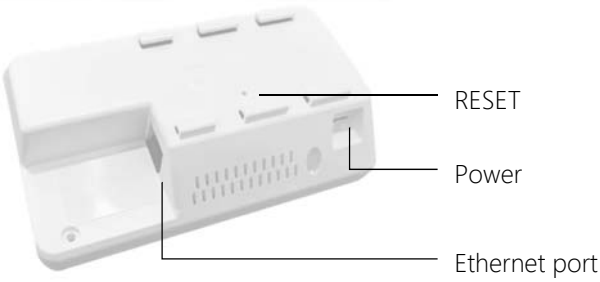
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# I. Product Information

## Exterior



	Description
RESET	When LB60004G works abnormally, press Reset button to restart.
power	5 V,2.5A for full power delivery to USB devices
Ethernet port	Ethernet ports for connecting the LB60004G to the local computers

## II. Network Setup

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### II.1 - Connection with LB60004G

Wireless connected by LBeacon default AP

ssid:BiDaE\_AP

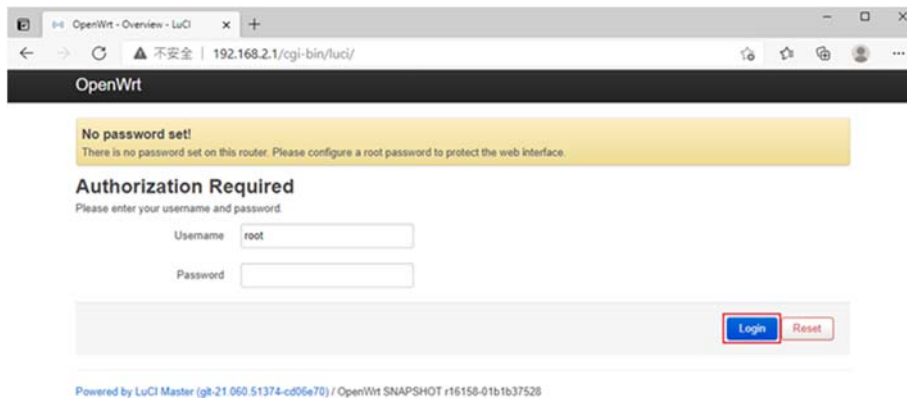
Or connected by Ethernet cable

### II.2 - Set up

#### Setup Using Browser

Enter IP(default IP:192.168.2.1) in address bar and login

Username:root, No password



## II. Network Setup

### II.3 - Connection to Wi-Fi

Go to Web Setting > Network > Wireless > Scan > Join Network > Enter "passphrase" > save > submit > save > Save & Apply

The screenshot shows the OpenWrt LuCI web interface. At the top, there's a navigation bar with 'OpenWrt', 'Status', 'System', 'Network', and 'Logout'. Below this, a yellow warning box states 'No password set!'. The main content area is divided into two sections: 'Wireless Overview' and 'Join Network: Wireless Scan'.

**Wireless Overview:** This section shows the status of the wireless radio. It includes a 'radio0' button, the hardware 'Qualcomm Atheros QCA9530 802.11bgn', and the channel '11 (2.462 GHz)'. There are buttons for 'Restart', 'Scan' (highlighted with a red box), and 'Add'. Below this, it shows the SSID 'BIDaE\_AP', mode 'Master', BSSID '00:C0:CA:AD:B9:3E', and encryption 'WPA2 PSK (CCMP)'. There are also buttons for 'Disable', 'Edit', and 'Remove'.

**Associated Stations:** This section is currently empty, showing 'No information available'.

**Join Network: Wireless Scan:** This section displays a table of available wireless networks. The table has columns for Signal, SSID, Channel, Mode, BSSID, and Encryption. One network is listed with a signal of -37 dBm, SSID 'BIDaE', channel 1, mode Master, BSSID 'D0:96:FB:8B:A4:47', and encryption 'mixed WPA/WPA2 PSK (TKIP, CCMP)'. The 'Join Network' button in this section is highlighted with a red box.

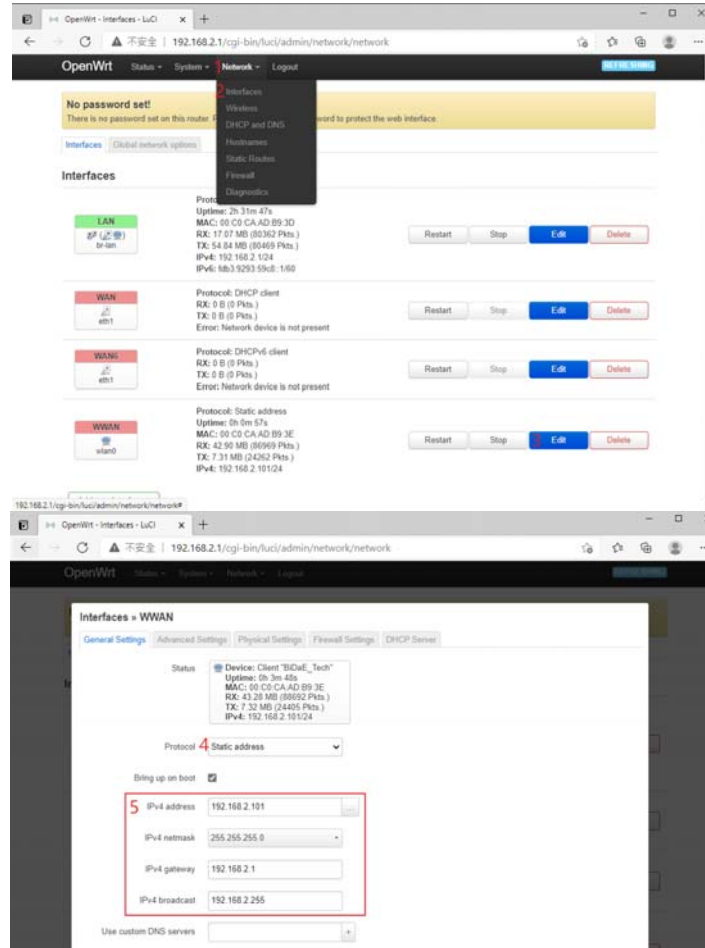
**Joining Network: 'BIDaE':** This is a form for joining the selected network. It includes a checkbox for 'Replace wireless configuration', a text field for 'Name of the new network' (set to 'wwan'), a password field for 'WPA passphrase' (masked with dots), a checkbox for 'Lock to BSSID', and a dropdown for 'Create / Assign firewall-zone' (set to 'wan'). At the bottom, there are 'Cancel' and 'Submit' buttons.



## II. Network Setup

### II.4 - Setting Static IP

Go to Web Setting > Network> Wireless> WWAN>Edit  
Select “Static address” >enter the “IPv4” >save>Save & Apply



## II. Network Setup

### II.5 - Setting Access Point

- .Setting Wireless Access Point

Go to Web Setting > Network > wireless >

Edit > change "ssid" > change "key" > save > Save & Apply

The screenshot displays the configuration interface for a wireless access point. At the top, a status bar shows the SSID as 'BiDaE\_AP', BSSID as '02:C0:CA:AD:B9:3E', and encryption as 'WPA2 PSK (CCMP)'. Below this, the 'Interface Configuration' section is shown with two tabs: 'General Setup' (selected) and 'Wireless Security'. The 'General Setup' tab contains fields for 'Mode' (set to 'Access Point'), 'ESSID' (set to 'BiDaE\_AP'), 'Network' (set to 'lan'), 'Hide ESSID' (unchecked), and 'WMM Mode' (checked). The 'Wireless Security' tab is also visible, showing 'Encryption' (set to 'WPA2-PSK (strong security)'), 'Cipher' (set to 'auto'), and 'Key' (set to '\*\*\*\*\*'). The 'Save' button is highlighted in green.

SSID: BiDaE\_AP | Mode: Master  
BSSID: 02:C0:CA:AD:B9:3E | Encryption: WPA2 PSK (CCMP)

Disable Edit Remove

**Interface Configuration**

General Setup Wireless Security MAC-Filter Advanced Settings

Mode Access Point

ESSID BiDaE\_AP

Network lan

Choose the network(s) you want to attach to this wireless interface or fill out the *custom* field to define a new network.

Hide ESSID ☐

Where the ESSID is hidden, clients may fail to roam and airtime efficiency may be significantly reduced.

WMM Mode ☒

Where Wi-Fi Multimedia (WMM) Mode QoS is disabled, clients may be limited to 802.11a/802.11g rates.

Dismiss Save

**Interface Configuration**

General Setup Wireless Security MAC-Filter Advanced Settings

Encryption WPA2-PSK (strong security)

Cipher auto

Key \*\*\*\*\*

802.11r Fast Transition ☐

Enables fast roaming among access points that belong to the same Mobility Domain

802.11w Management Frame Protection Disabled

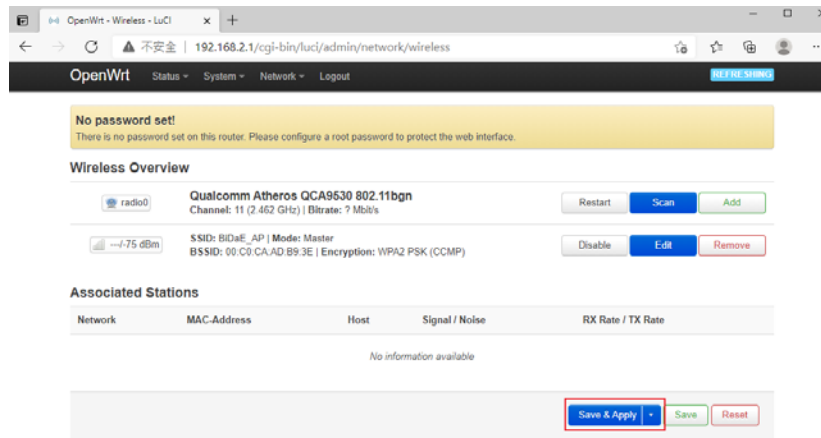
Note: Some wireless drivers do not fully support 802.11w. E.g. mwlwifi may have problems

Enable key reinstallation (KRACK) countermeasures ☐

Complicates key reinstallation attacks on the client side by disabling retransmission of EAPOL-Key frames that are used to install keys. This workaround might cause interoperability issues and reduced robustness of key negotiation especially in environments with heavy traffic load.

Dismiss Save

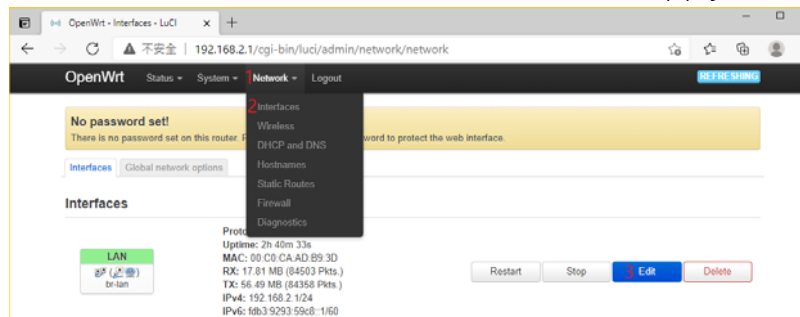
## II. Network Setup



- Setting LAN static IP

Go to Web Setting > Network > Interfaces

LAN > Edit > enter the "IPv4" > save > Save & Apply



## II. Network Setup

Interfaces > LAN

General Settings | Advanced Settings | Physical Settings | Firewall Settings | DHCP Server

Status: Device: br-lan  
Uptime: 2h 39m 58s  
MAC: 00:C0:CA:AD:B9:3D  
RX: 17.75 MB (84224 Pkts.)  
TX: 56.38 MB (84089 Pkts.)  
IPv4: 192.168.2.1/24  
IPv6: fd33:9293:59c8:1/60

Protocol: Static address

Bring up on boot: ☒

IPv4 address: 192.168.2.1

IPv4 netmask: 255.255.255.0

IPv4 gateway: 192.168.2.1 (wan)

IPv4 broadcast: 192.168.2.255

Optional: Allowed values: 'eui64', 'random', fixed value like ':1' or ':1:2'. When IPv6 prefix (like 'a:b:c:d::') is received from a delegating server, use the suffix (like '::1') to form the IPv6 address ('a:b:c:d::1') for the interface.

Dismiss Save

Save & Apply Save Reset

- Turn off LBeacon AP

Go to Web Setting > Network > Wireless > Disable > Save & Apply

OpenWrt Status System Network Logout

No password set!  
There is no password set on this router. Please configure a root password to protect the web interface.

Wireless Overview

radio Qualcomm Atheros QCA9530 802.11bgn  
Channel: 9 (2.452 GHz) | Bitrate: 180 Mbit/s

Restart Scan Add

SSID: BiDaE\_AP Mode: Master  
BSSID: 02:C0:CA:AD:B9:3E | Encryption: WPA2 PSK (CCMP)

1 Disable Edit Remove

SSID: BiDaE\_Tech Mode: Client  
BSSID: 00:C0:CA:AD:B9:3E | Encryption: WPA2 PSK (CCMP)

Disable Edit Remove

Associated Stations

Network	MAC Address	Host	Signal / Noise	RX Rate / TX Rate
Client "BiDaE_Tech" (vntano)	BC:EE:7B:F4:C3:80	?	-19/-76 dBm	162.0 Mbit/s, 40 MHz, MCS 12 270.0 Mbit/s, 40 MHz, MCS 14, Short GI

2 Save & Apply Save Reset