

HaLow-R

User Quick Guide



Product Overview



LED Indicator / Interface	Descriptions
1 Power Indicator (Red)	On – Power on Off – No power
2 Wi-Fi HaLow Indicator (Amber)	On – Wi-Fi HaLow is running properly Blinking – Wi-Fi HaLow is sending or receiving data
3 Wi-Fi 2.4G Indicator (Amber)	On – Wi-Fi 2.4G is running properly Blinking – Wi-Fi 2.4G is sending or receiving data
4 Ethernet Indicator (Green)	On – Ethernet port is connect Blinking – Ethernet is sending or receiving data
System Indicator (Blue) Reset Button	Blinking – System is running properly Reset Default - Press "Reset" button for 10 seconds
6 HaLow Antenna Connector	ANT port is used to connect Wi-Fi HaLow ANT (SMA)
7 Wi-Fi Antenna Connector	ANT port is used to connect Wi-Fi 2.4G ANT (RP-SMA)
8 Ethernet Port	RJ-45 connector for Fast Ethernet (LAN Port)
9 Power Port	Rated DC 12V/1A



Application Scenario

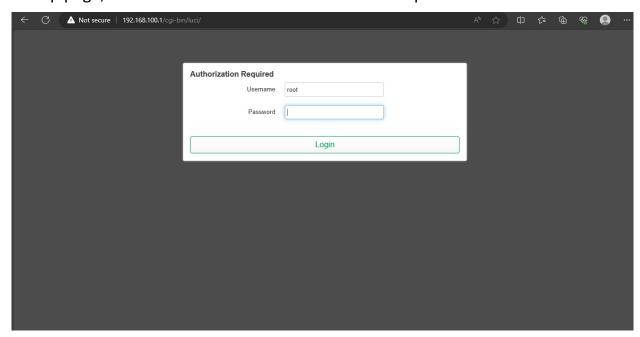


- (1). Attach Antenna to the HaLow-R and rotate the antenna until it is tight.
- (2). Connect the HaLow-R and Computer's LAN port for settings.
- (3). After setting is completed, please connect the Internet to the HaLow-R AP side.

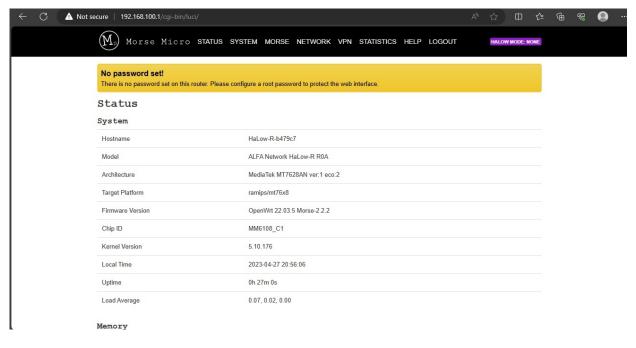


Open Setup Page and Login

Open a browser then type 192.168.100.1 into the address bar to access the setup page, default username is "root" and no need password.

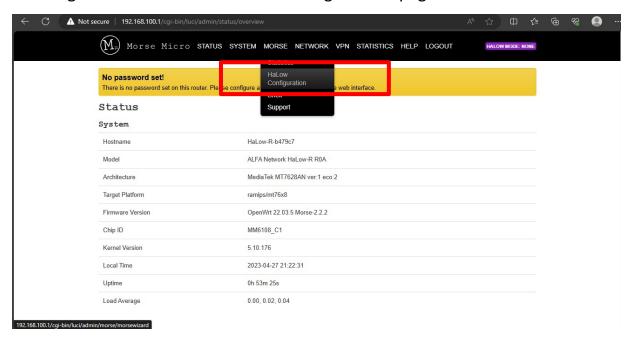


After logging in, the "STATUS" page will be shown.



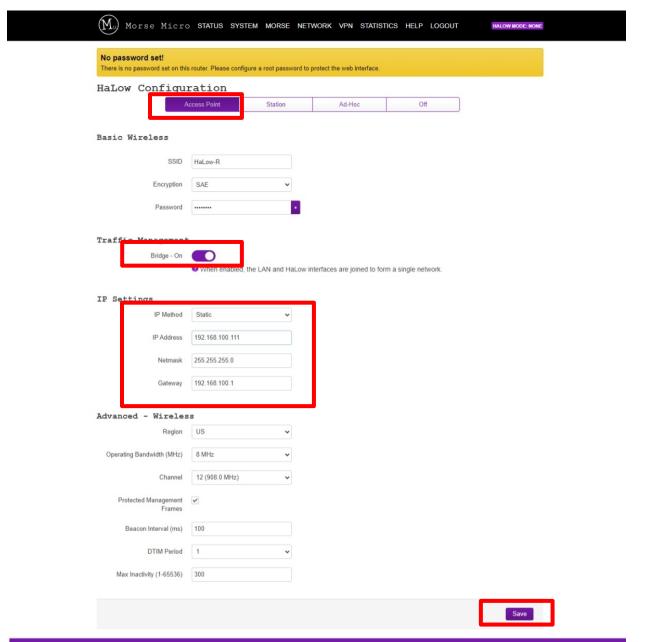


Please go to the "MORSE → HaLow Configuration" page.



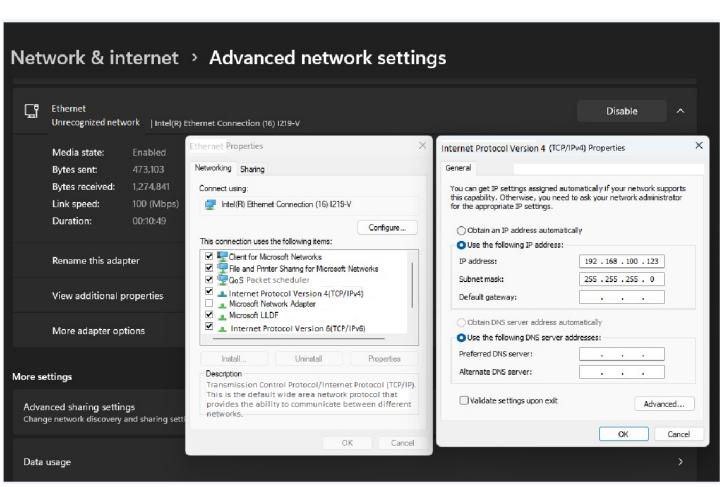


- 1).Click "Access Point" page
- 2). Enable "Bridge" mode
- 3).IP Settings → "Static", and fill the IP Address, Netmask, Gateway information.
- 4). After the setting is completed, please click the "Save" button.



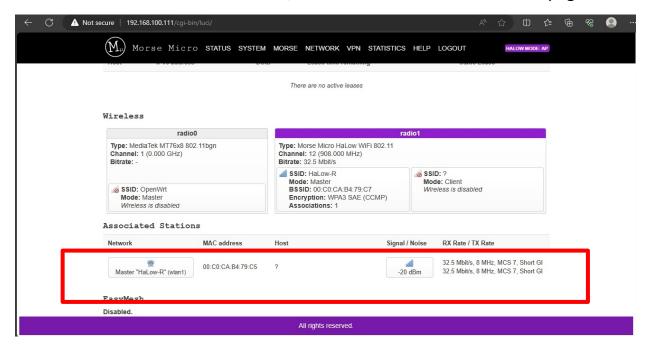


Please change the IP Address of the computer to the same network segment as HaLow-R.





When the Client connects to the AP, it will be shown on the "STATUS" page.

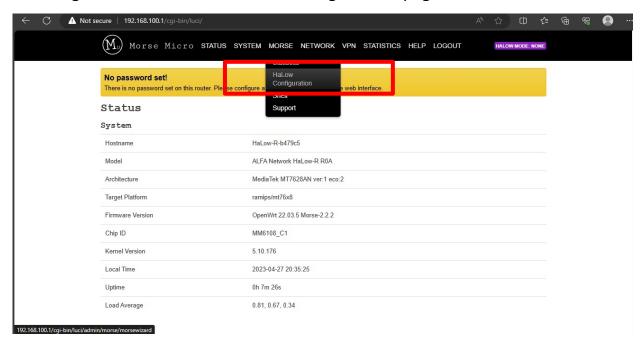




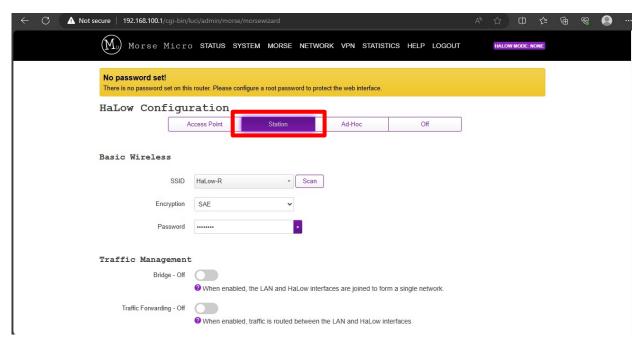
Note: When you reload the web page, please note whether you have changed the device IP!



Please go to the "MORSE → HaLow Configuration" page.

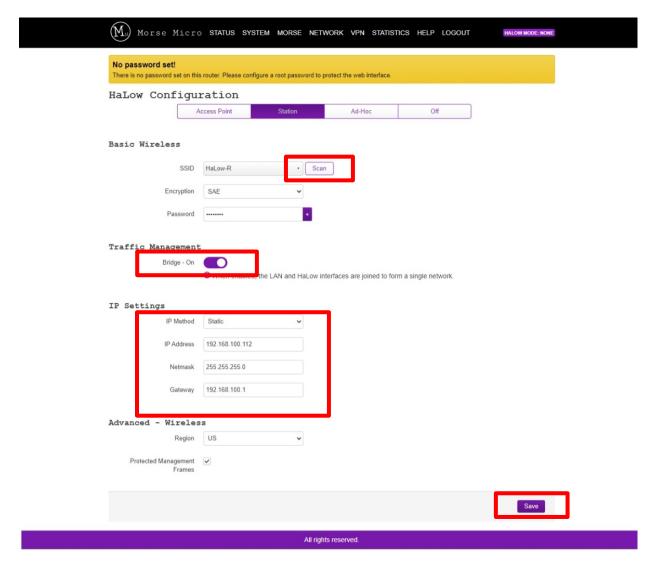


Click "Station" page



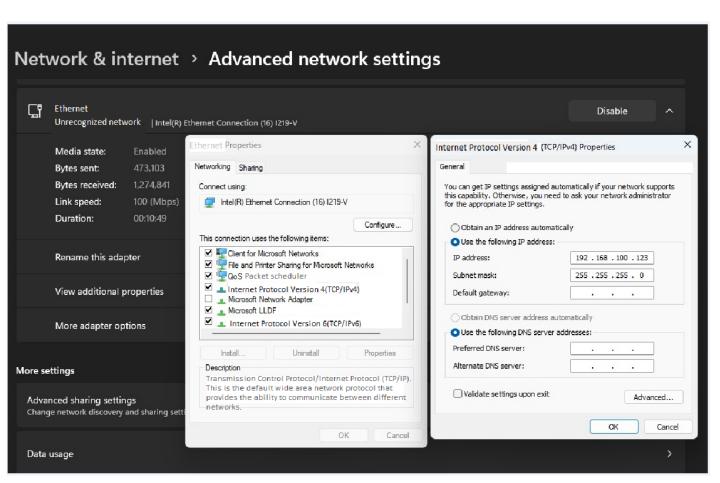


- 1).Click "Scan" button for AP scan, and fill the password if need.
- 2).Enable "Bridge" mode
- 3).IP Settings → "Static", and fill the IP Address, Netmask, Gateway information.
- 4). After the setting is completed, please click the "Save" button.



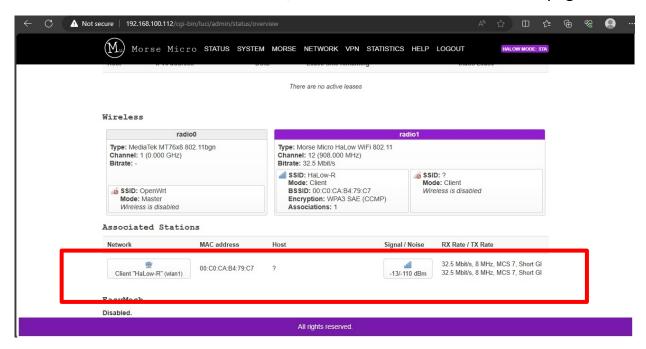


Please change the IP Address of the computer to the same network segment as HaLow-R.





When the Client connects to the AP, it will be shown on the "STATUS" page.



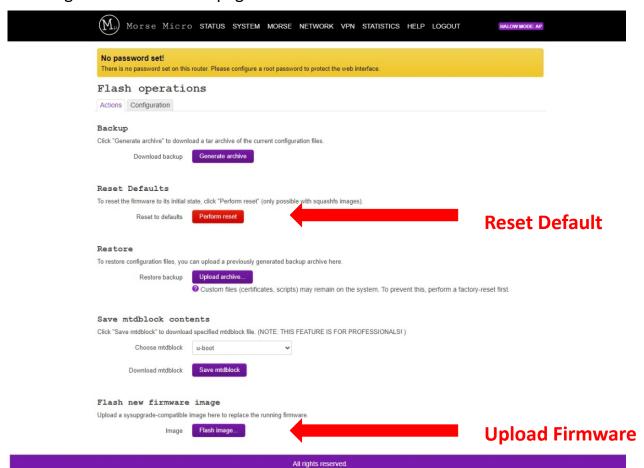


Note: When you reload the web page, please note whether you have changed the device IP!



How to Reset Default and Upload Firmware

Please go to the "SYSTEM" page.





HaLow-R Specifications

WiFi 4 (IEEE 802.11n)

Chipset MediaTek MT7628AN

Flash SPI Flash 32 MB

RAM DDR2 SDRAM 128 MB

WiFi standard IEEE 802.11n (2.4 GHz)

Channel bandwidth 20/40 MHz

Max. date rate (Phy rate) 300 Mbps

Antenna connector 2x RP-SMA connectors

Antenna 2x 2.71 dBi dipole antenna

WiFi HaLow (IEEE 802.11ah)

Chipset Morse Micro MM6108IQ

WiFi standard IEEE 802.11ah
Channel bandwidth 1/2/4/8 MHz

Max. date rate (Phy rate) Up to 32.5 Mbps @ Bandwidth 8 MHz

Antenna connector 1x SMA connector

Antenna 1x 2 dBi dipole antenna

General

Ethernet 1x Fast Ethernet with ESD protection

Button 1x push-button (reset)

LED 1x Power

1x WiFi HaLow 1x WiFi 2.4G 1x Ethernet 1x Reset / System

DC power jack Power rated: DC 12V / 1A

Dimensions 93 x 60 mm

Operation Temperature -10°C~55°C

CE statement



Simplified EU Declaration of Conformity

Hereby, ALFA NETWORK INC. declares that this Wireless Device HaLow-R product is in compliance with essential requirements and other relevant provisions of Directive 2014/53/EU. A copy of the Declaration of conformity can be found at www.alfa.com.tw

Safety Notices

- 1. Operation temperature: -10°C~55°C.
- 2. This product is allowed to be used in all EU member states.
- 3. When using the device, keep the antenna at least 20 cm away from the human body.
 - Refer to the rating label on the bottom of your product and ensure your power adapter complies with this rating.
 - DO NOT place on uneven or unstable work surfaces. Seek servicing if the casing has been damaged.
 - DO NOT place or drop objects on top and do not shove any foreign objects into the product.
 - DO NOT expose to or use near liquids, rain, or moisture.
 - DO NOT use the product during electrical storms.
 - DO NOT cover the vents on the product to prevent the system from getting overheated.
 - DO NOT use damaged power cords, accessories, or other peripherals.
 - If the product/power adapter is broken, do not try to fix it by yourself. Contact a qualified service technician or your retailer.
 - To prevent electrical shock hazard, disconnect the power cable from the electrical outlet before relocating the system.

Installation:

- 1. this device will not be sold to the general public, it will be sold to dealers only.
- 2. this device requires controlled installation location by professional installers.
- 3. the device requires professional configuration for use.
- 4. Professional installation does not permit use of any other antenna with the transmitter.
- 5 .It will not be removed after professional installation.

Dipole Antenna:

Wi-Fi HaLow Gain:2dBi 2.4G wifi Gain:2.71dBi

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. 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, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Note: 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.

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.

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

This equipment should be installed and operated with minimum distance 20cm between the radiator &your body.