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
5 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

Internet

**HaLow-R
AP**

Camera
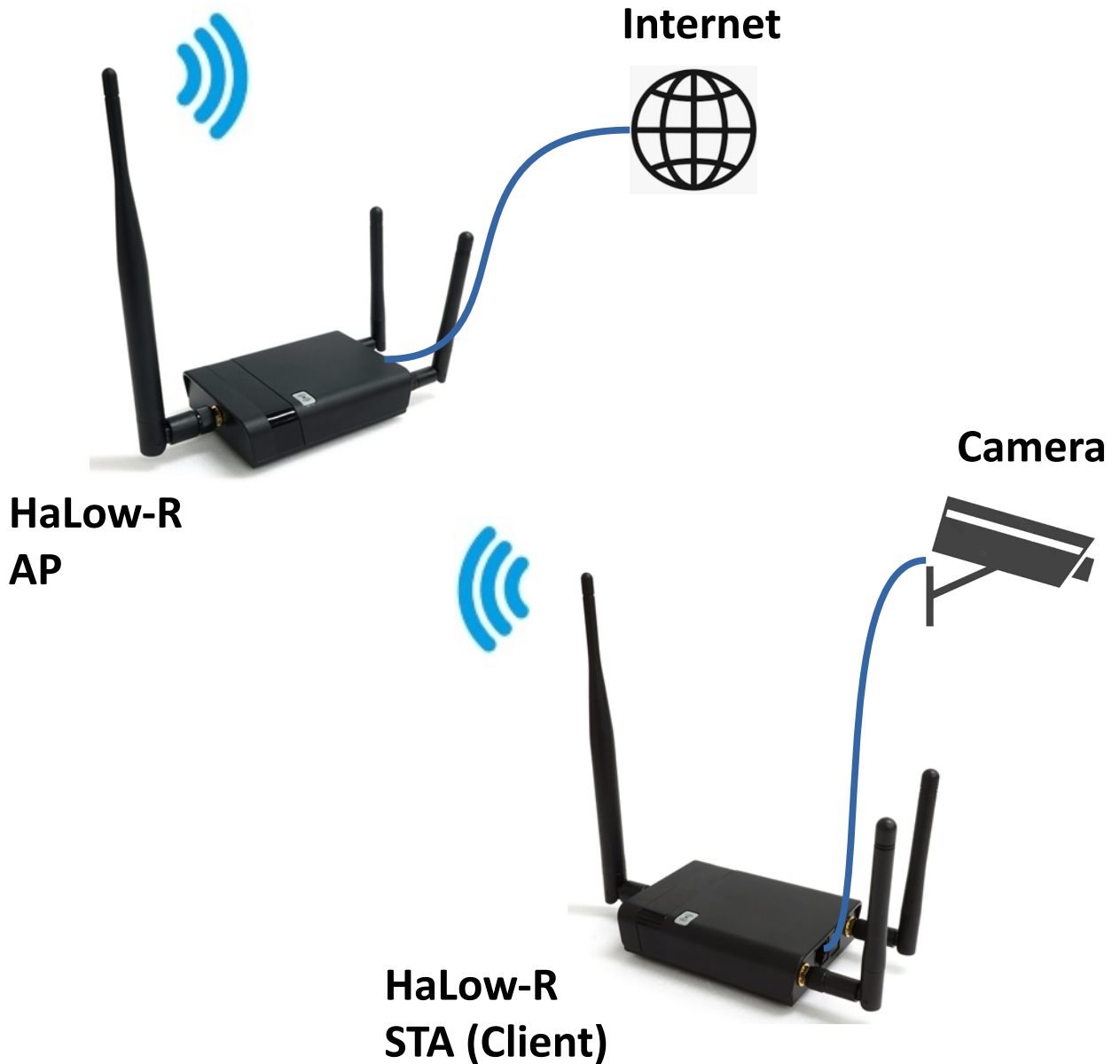
**HaLow-R
STA (Client)**

(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.
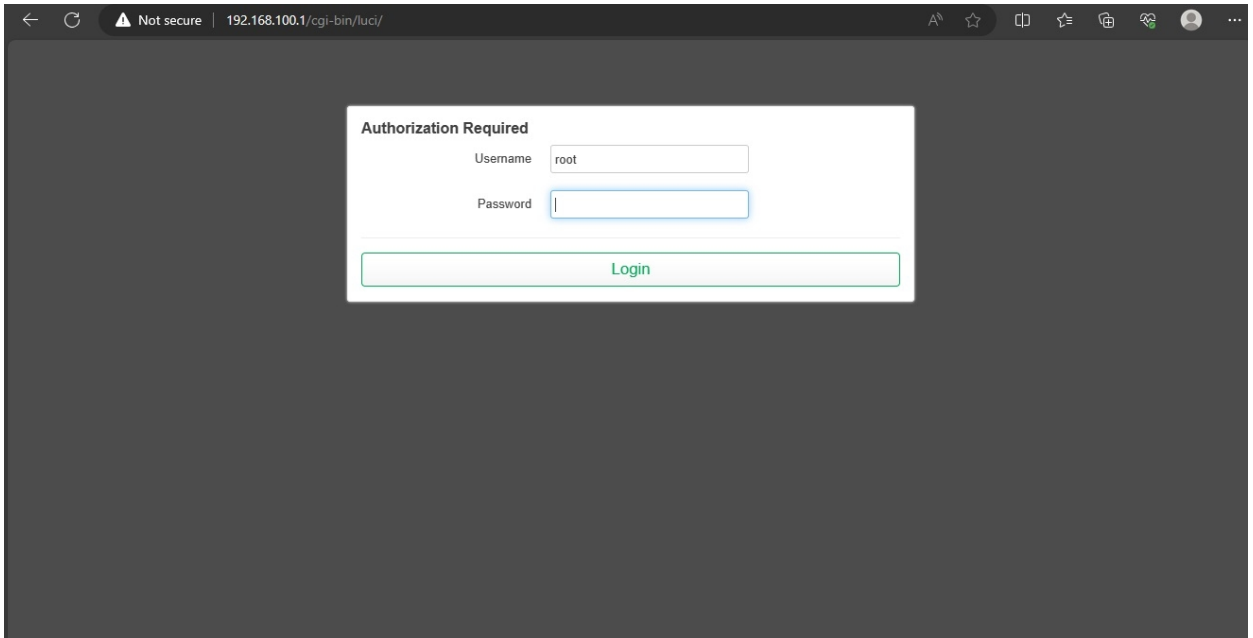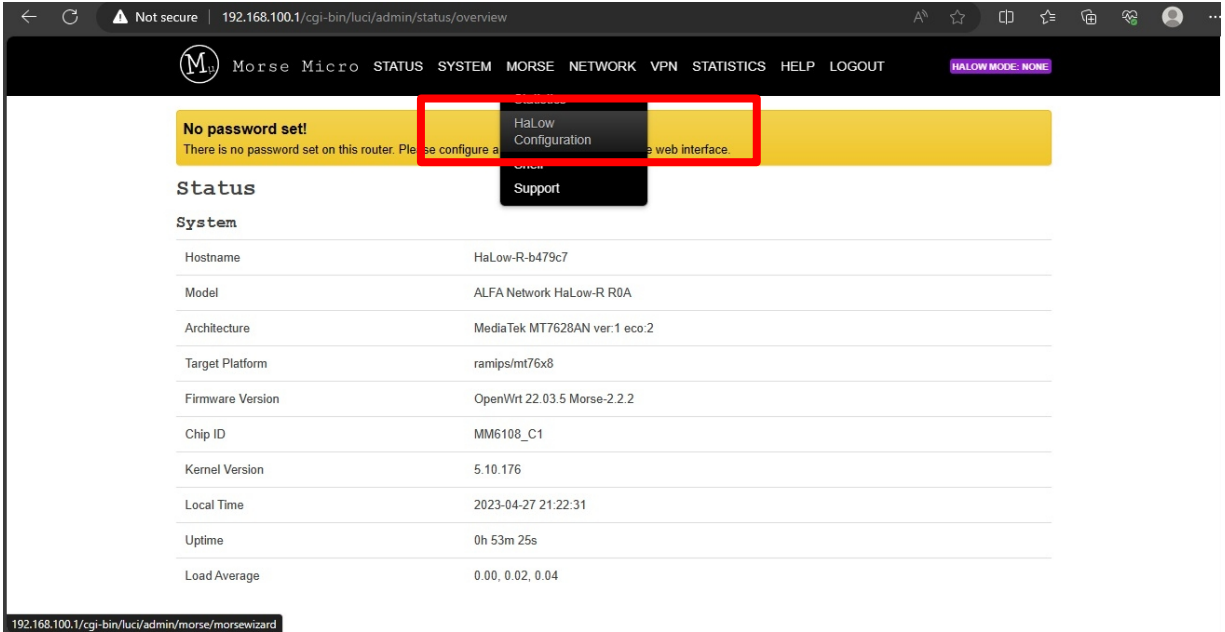

After logging in, the "STATUS" page will be shown.
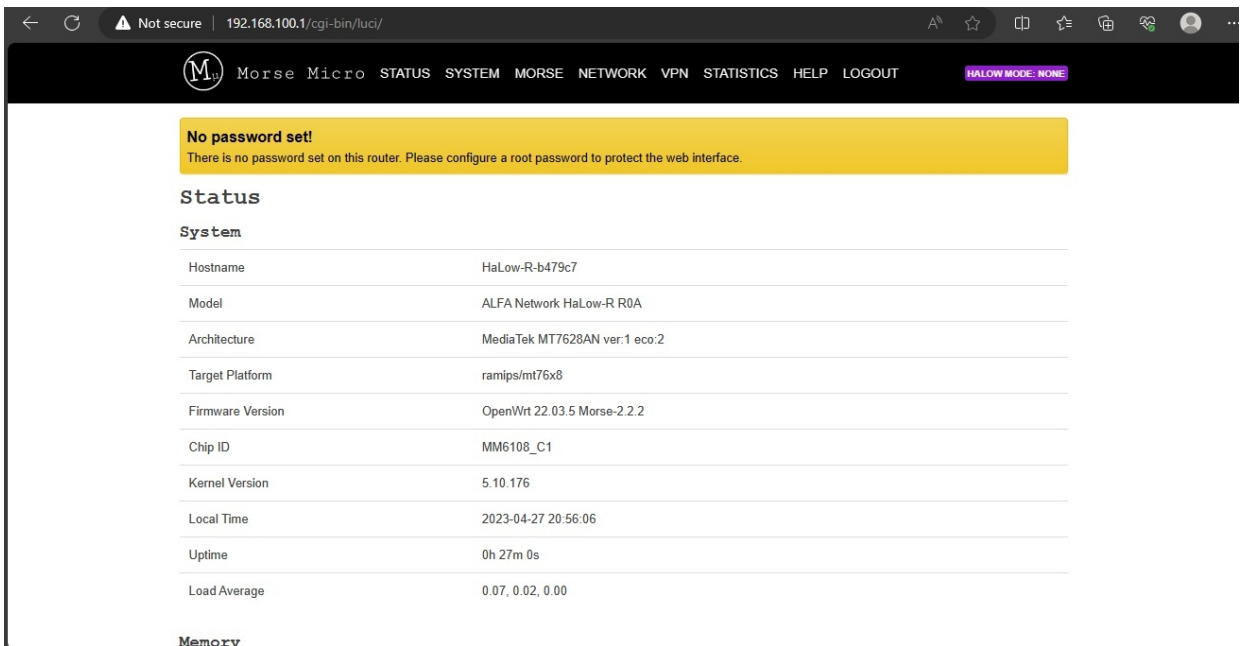
How to Setup AP Mode

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

How to Setup AP Mode

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.

How to Setup AP Mode

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

How to Setup AP Mode

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 Setup Client Mode

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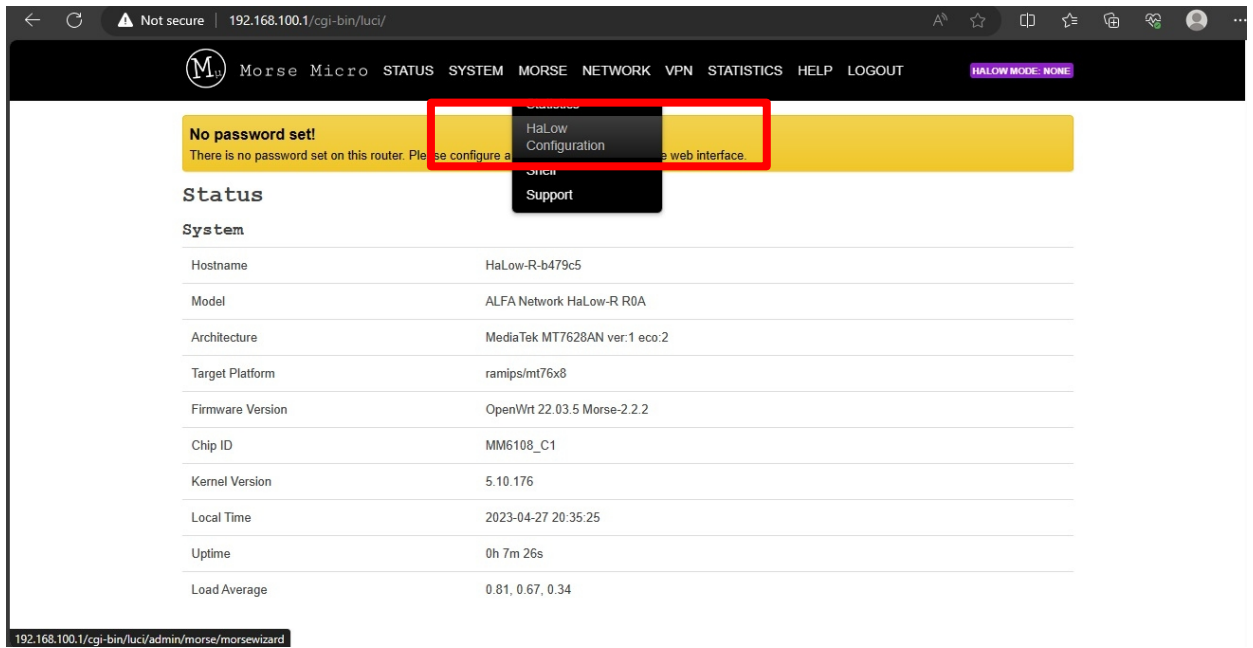
Click "Station" page

How to Setup Client Mode

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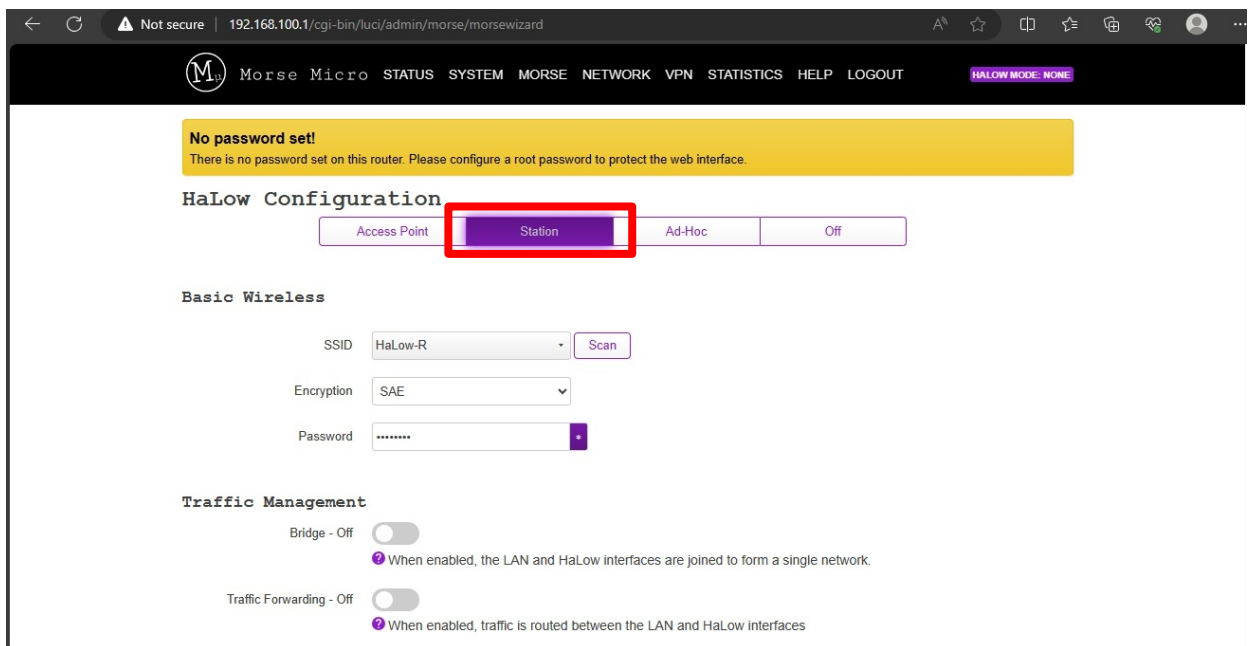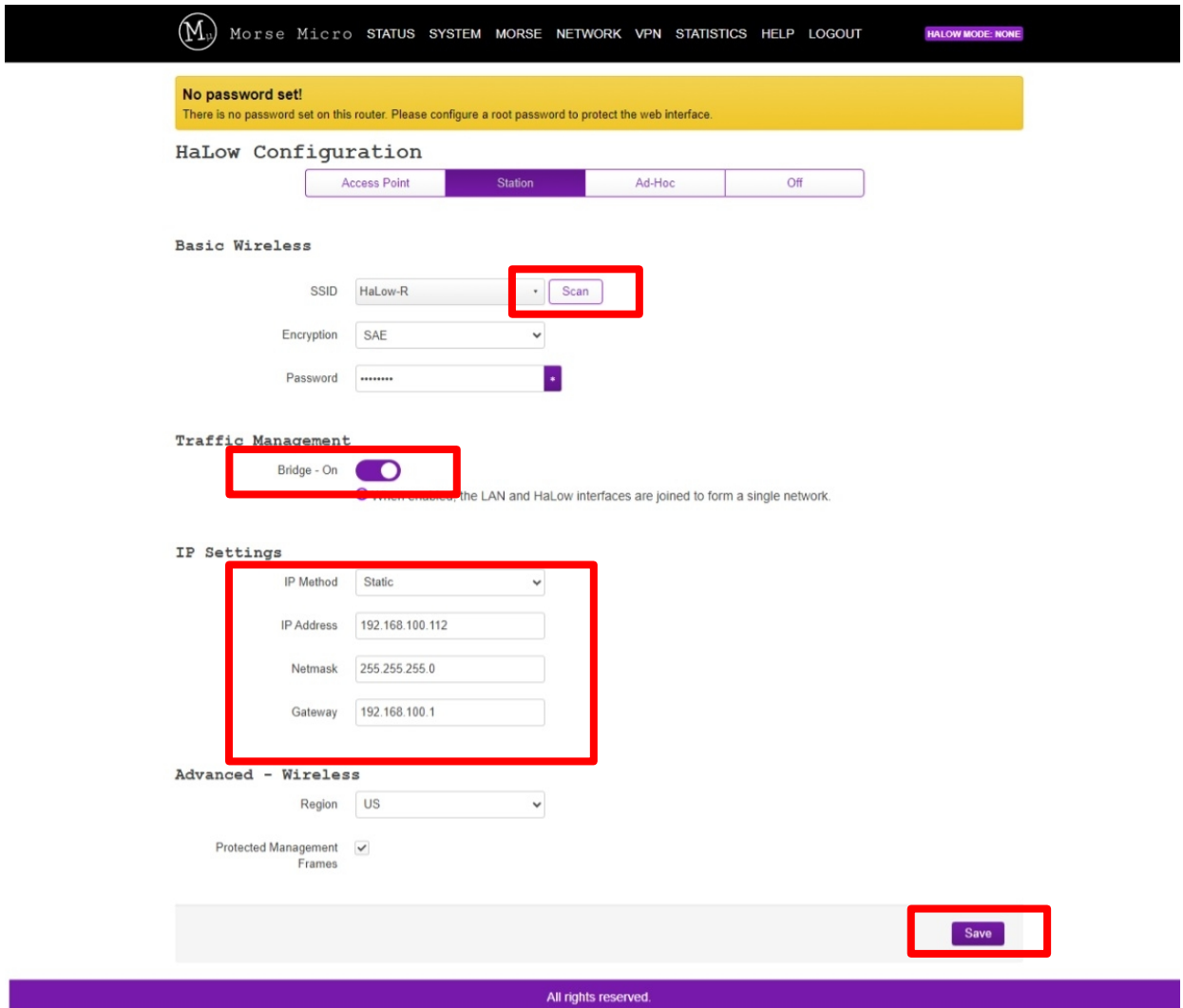2).Enable "Bridge" mode
3).IP Settings → "Static", and fill the IP Address, Netmask, Gateway information.
4).After the setting is completed, please click the "Save" button.

How to Setup Client Mode

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

How to Setup Client Mode

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

![NOTE icon] 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.

Reset Default

Upload Firmware

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 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.
4. RF: FSK 863MHz~870MHz, output power: XX dBm.
5. The full text of the EU declaration of conformity is available at the following internet address: www.alfa.com.tw

• 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.