

802.11ah HaLow Wi-Fi Bridge/Station

HLB-100

Quick Installation Guide

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1. Package Contents

Thank you for purchasing PLANET **802.11ah HaLow Wi-Fi Bridge/Station**. Unless specified, "**HaLow Network Device**" mentioned in this Quick Installation Guide refers to the HLB-100.

Model	Description
HLB-100	802.11ah HaLow Wi-Fi Bridge/Station

Open the box of the **HaLow Network Device** and carefully unpack it. The box should contain the following items:

- HLB-100
- QR Code Sheet
- DC 5V/2A Power Adapter
- Sub-1G Antenna

If any item is found missing or damaged, please contact your local reseller for replacement.

2. Requirements

- Workstations running Windows 7/8/10/11, MAC OS 10.12 or later, Linux Kernel 2.16.18 or later, or other platforms are compatible with TCP/IP protocols.
- Workstations are installed with **Ethernet NIC** (Network Interface Card)
- **Ethernet Port Connection**
 - Network cables -- Use standard network (UTP) cables with RJ45 connectors.
 - The above PC is installed with Web browser.



Note

It is recommended to use Chrome 98.0.xxx or above to access the **HaLow Network Device**. If the Web interface of the **HaLow Network Device** is not accessible, please turn off the anti-virus software or fire-wall and then try it again.

3. Hardware Introduction

3.1 Front Panel and LED indicators

■ HLB-100 Front Panel

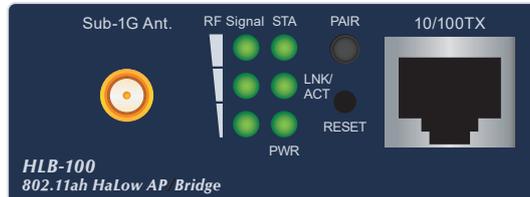


Figure 3-1: HLB-100 Front Panel

- One 10/100BASE-TX RJ45 port for **WAN/LAN** Ethernet
- One HaLow Wi-Fi Sub-1G SMA Female connector
- LEDs for power, Ethernet, wireless signal and operation mode

■ HLB-100 Rear Panel



Figure 3-2: HLB-100 Rear Panel

- One 5V DC power socket
- One 3-pin removable terminal block for RS485

4. Starting Web Management

The following shows how to start up the **Web Management** of the **HaLow Network Device**. Note it is configured through an Ethernet connection. Please make sure the manager PC must be set to the same **IP subnet address**.

For example, the default IP address of the **HaLow Network Device** is **192.168.1.253**, then the manager PC should be set to **192.168.1.x** (where x is a number between 1 and 254, except 253), and the default subnet mask is 255.255.255.0.

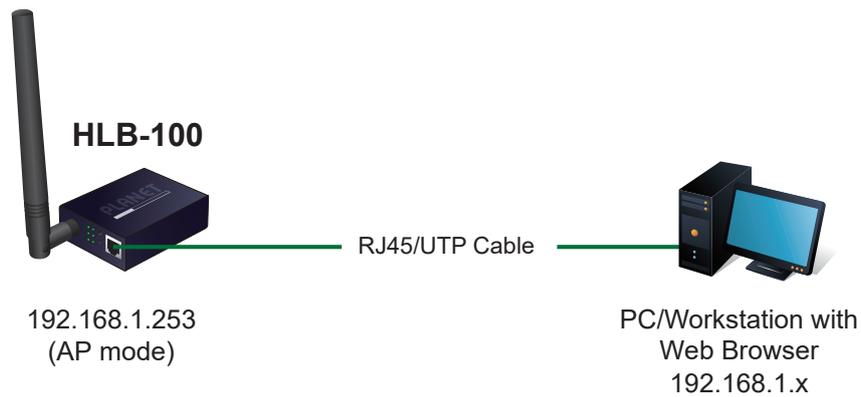


Figure 4-1: IP Management Diagram

4.1 Logging on to the HaLow Network Device

1. Use Chrome or another Web browser to enter the default IP address **<https://192.168.1.253>** to access the Web interface.
2. When the following dialog box appears, please enter the default user name "**admin**" and the password. Refer to the following to determine your initial login password.

Default IP Address: **192.168.1.253**
Default Username: **admin**
Default Password: **hl+ the last 6 characters of the MAC ID in lowercase**
Default 1GHz SSID: **PLANET_AH**
Default Mode: **AP mode**



Figure 4-2: Web Login Screen

3. The **HaLow Network Device** supports three operation modes:
 - Gateway Mode
 - AP Mode (Default)
 - Station Mode



Note

1. The single RJ45 port can be configured by the user to function as either a **LAN** port or a **WAN** port. If you log in to the web user interface using the LAN IP address 192.168.1.253 in the default AP mode, changing the operation mode to Gateway mode and applying the configuration will result in the web disconnection.
2. If this occurs, you will need another HaLow device configured in Station mode to establish a HaLow wireless connection and remotely log in to the HaLow Router to complete the configuration.

Please follow the wizard to do the first-time setup and select the mode preferred.

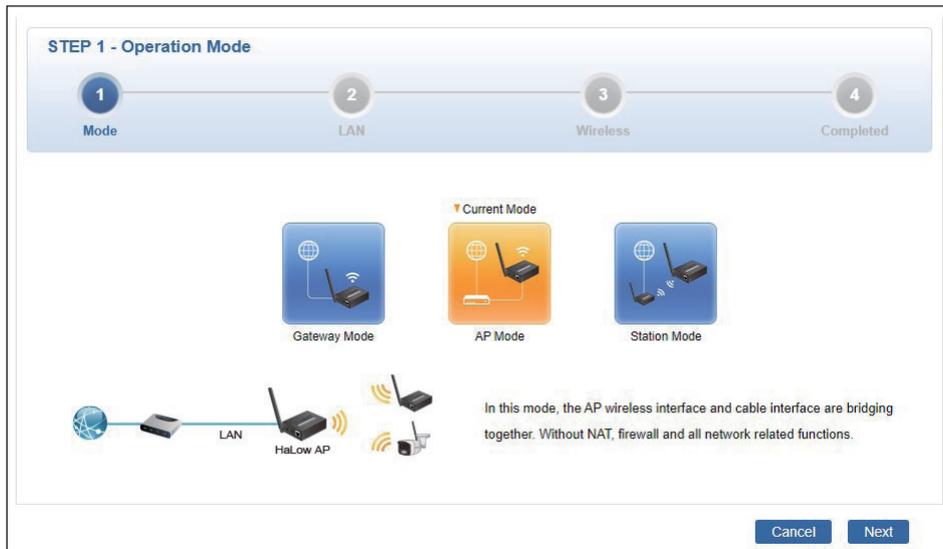


Figure 4-3: Web Wizard Operation Mode of HaLow Network Device

Once Web setup wizard is completed, enter the new username and password. The main screen appears as Figure 4-4 shows.



Figure 4-4: Web Main Screen of HaLow Network Device

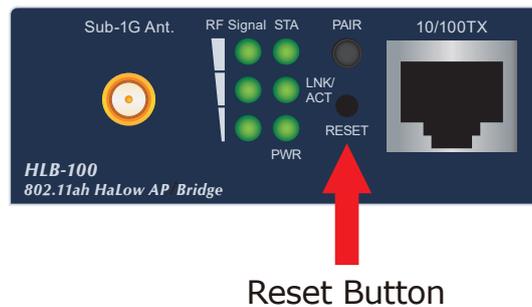
Now you can use the Web management interface to continue the **HaLow Network Device** management.

Please refer to the user’s manual for more.

5. Recovering Back to Default Configuration

■ IP address has been changed or admin password has been forgotten –

To reset the IP address to the default IP address “192.168.1.253” or reset the login password to default value, press the hardware reset button on the front panel for about **10 seconds**. After the device is rebooted, you can log in to the management Web interface within the same subnet of 192.168.1.xxx.



Reset Button

Figure 5-1: HLB-100 Reset Button

6. Central Management through PLANET NMS

Follow the steps below to discover the **HaLow Network Device** through PLANET NMS controller (NMS-500/NMS-1000V). Please ensure each **HaLow Network Device** uses a different static IP in the same subnet before physically connecting to the managed network.



Note

Please regularly check PLANET website for the latest compatible list of the controller/managed APs in each firmware version.

Step 1: Launch the Web browser (Google Chrome is recommended.) and enter the default IP address <https://192.168.1.100:8888> of the NMS controller. Then, enter the default username and password **"admin"** to log on to the system.

* The secure login with SSL (HTTPS) prefix is required.



Step 2: Go to the **"Domain"** page to discover and add the managed AP to the device list. Then, you can go to the **"AP Control-> AP Management"** page to configure pre-defined profiles to the managed AP without logging on to the AP's web page.

For further information about the configuration of Managed AP by using PLANET Smart AP Control, refer to the configuration guide to the NMS controller (NMS-500/NMS-1000V).

7. Customer Support

Thank you for purchasing PLANET products. You can browse our online FAQ resource on PLANET web site first to check if it could solve your issue. If you need more support information, please contact PLANET switch support team.

PLANET online FAQs:

<https://www.planet.com.tw/en/support/faq>

Support team mail address:

support@planet.com.tw

HLB-100 User's Manual:

<https://www.planet.com.tw/en/support/downloads?&method=keyword&keyword=HLB-100&view=3#list>



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