



HUAWEI SME Network Solution User Guide

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HUAWEI SME Network Solution



Specifications

- Product Name: SME Network Solution
- Issue Date: 09 2024-11-17
- Manufacturer: HUAWEI TECHNOLOGIES CO., LTD.
- Website: <https://ekit.huawei.com>

Issue 09

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SME Network Product Quick Start Portal

To offer better information experience (for example, obtaining installation and deployment guidance), we have also launched the all-new [SME Network Product Quick Start Portal](#), which is shown in Figure 1-1.

Figure 1-1 SME Network Product Quick Start Portal



Hardware Description

The table below lists the hardware description documents for SME Network devices. You can refer to the Hardware Description of the corresponding device model to quickly search for hardware information, including indicator meanings and interface information.

Category	Hardware Description
Gatewa y	SME Network AR Router Hardware Description
	SME Network Multi-Service Gateway Hardware Description
Switch	S110, S220, S310, S530, and S620 Hardware Description
	S220S and S310S Series Switches Hardware Description
WLAN	SME Network WLAN Hardware Description

Installing Devices

The table below lists the installation guide documents for SME Network devices. For WLAN AP products, installation videos and graphs are also provided. You can refer to the Installation Guide of the corresponding device model to install a device using the accessories delivered with the device.

Category	Installation Guide
Gateway	SME Network AR Router Hardware Installation and Parts Replacement
	SME Network Multi-Service Gateway Hardware Installation and Parts Replacement
	SME Network Multi-Service Gateway Installation Graphs
Switch	S110, S220, S310, S530, and S620 Hardware Installation and Parts Replacement
	S220S and S310S Series Switches Hardware Installation and Component Replacement
	SME Network S Switch Installation Graphs
WLAN	SME Network WLAN Hardware Installation and Parts Replacement
	SME Network WLAN Installation Graphs
	How to Install SME Network Indoor Settled APs on a Wall (Using Small Mounting Brackets)
	How to Install SME Network Indoor Settled APs on Gypsum Board Ceilings (Using Small Mounting Brackets)
	How to Install SME Network Wall Plate 86×86 AP on a Junction Box
	How to Install SME Network Indoor Settled APs on T-Rail Ceilings (Using Small Mounting Brackets)

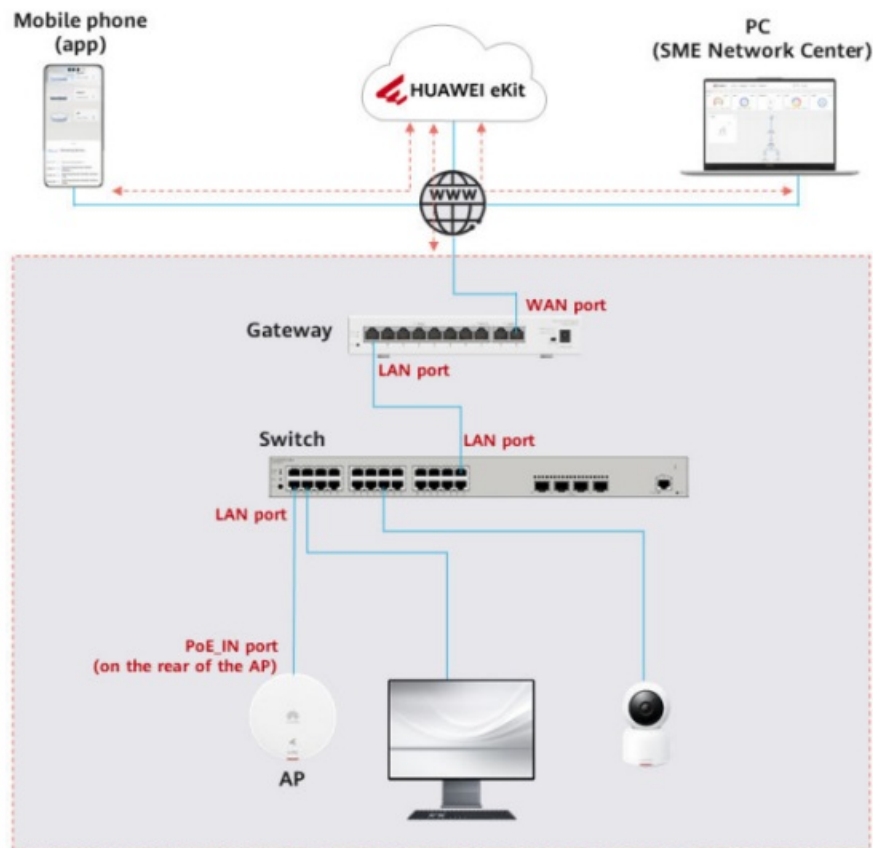
Category	Installation Guide
	How to Install SME Network Indoor Settled APs on Spring Tee Ceilings (Using Small Mounting Brackets)

NOTE

- If an AP needs to be deployed by scanning the barcode on the Huawei eKit app, use the Huawei eKit app to scan the QR code on the rear of the AP before the installation.
- If the SN of an AP needs to be added to the Huawei eKit SME Network Center and then the AP goes online in the Huawei eKit system, record the SN on the rear of the AP before the installation.

Networking Connections

A typical network with SME Network devices consists of gateways, switches, and APs, as shown in the following figure.



- The WAN port of the gateway obtains an IP address through DHCP, PPPoE, or static configuration to communicate with the external network.
- The gateway dynamically allocates IP addresses to LAN-side switches and APs through DHCP.
- APs can be powered by a PoE switch. If a non-PoE switch is used, APs need to be powered by power adapters.
- Entire-network devices can be remotely managed through the Huawei eKit app on a mobile phone or Huawei eKit SME Network Center on a PC.
- For details about the deployment guide and other networking information, refer to [SME Network Typical Configuration Examples](#).

Configuring Devices

Devices can be onboarded and managed in the Huawei eKit system (mobile app or web).

Method 1: Onboarding and Managing Devices Through the Huawei eKit App

1. Download the Huawei eKit app.

Scan the QR code to download the app. Alternatively, search for Huawei eKit in the app store (App Store on iOS) and download the app as prompted.

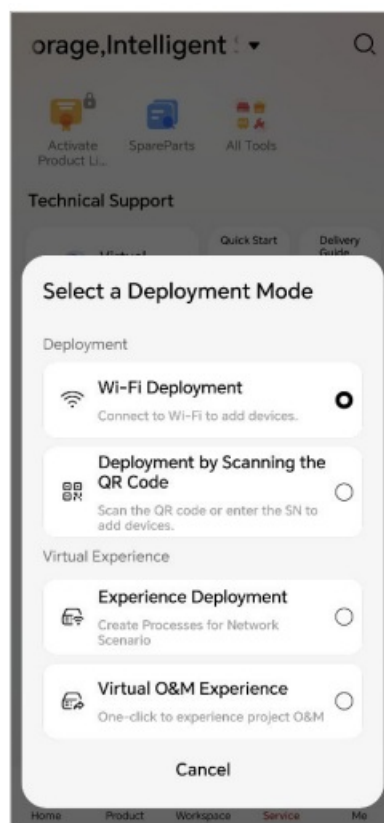


2. Select a deployment mode.

Open the app, tap + on the service page to start deployment, select SME Network as the product, and then select the deployment mode.

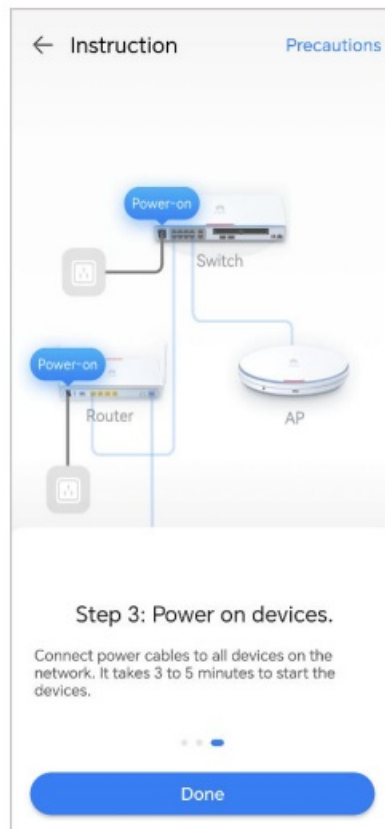
Before actual project deployment, you are advised to experience the deployment process in a virtual manner to help you quickly get familiar with the app-based deployment process.

- (Recommended) Wi-Fi-based deployment: Connect to the management Wi-Fi network of an AP to quickly onboard entire-network devices.
- Barcode scanning-based deployment: Scan the SN QR code on the device to add device information for automatic onboarding.

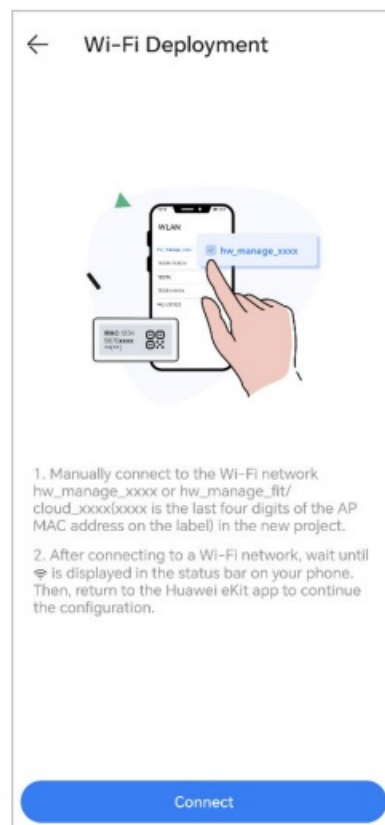


3. (Recommended) Wi-Fi-based deployment

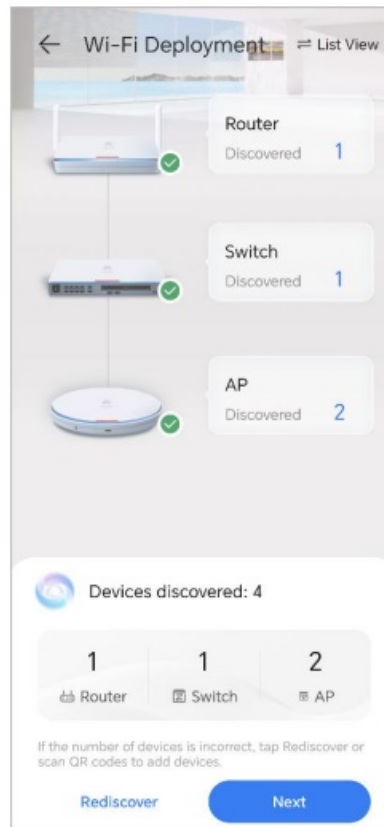
- a. Tap Precautions to view the deployment precautions.



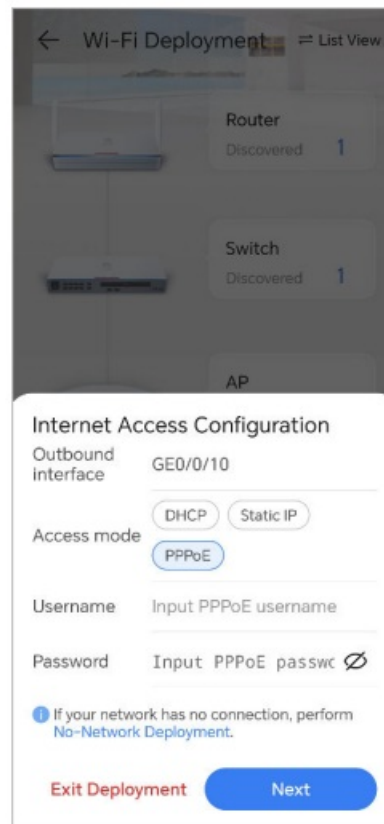
- b. Connect to the management Wi-Fi network.



- c. Start the deployment task and wait for the device to be automatically discovered.



- d. Wait until the device is automatically onboarded. In the automatic onboarding phase, if DHCP is not configured for the WAN port of the gateway to obtain an IP address, the page for setting the IP address obtaining mode is automatically displayed.



4. Barcode scanning-based deployment

- a. Prepare for gateway deployment, including configuring the gateway to communicate with the external network.

If the S380 is used as the gateway and the default mode (DHCP) is not configured for its WAN port, log in to the web system of the S380

(default IP address: 192.168.112.1) and configure the mode for obtaining an IP address for the WAN port. For details, see [What Do I Need to Do Before Onboarding an S380 by Scanning the Barcode?](#).

The screenshot shows the 'Internet Access Configuration' page in a web interface. At the top, there are three tabs: 'View Entire Network', 'Management Mode', and 'Internet Access Configuration'. The 'Internet Access Configuration' tab is active. Below the tabs, there are four configuration items: 'Internet access port' (set to GE0/0/0), 'Internet access mode' (with buttons for PPPoE, Static IP, and DHCP), 'PPPoE username' (set to admin), and 'PPPoE password' (set to 12345678). At the bottom right, there are three buttons: 'Back', 'Previous', and 'Order Configuration'.

If an AR router is used as the gateway, log in to the web system of the AR router (default IP address: 192.168.112.1) and configure the mode for obtaining the IP address for the WAN port, parameters for interworking with the Huawei eKit system, and other parameters (for the connected devices to go online). For details, see [What Do I Need to Do Before Onboarding an AR Router by Scanning the Barcode?](#).

The screenshot shows the 'Internet Access Wizard' dialog box. It has a 'Back' button at the top left. The main text says 'Configure Internet access parameters for the dynamic address mode. The Internet access interface will attempt to obtain an IP address from the network service provider.' Below this, there are three interface icons: GE0/0/0 (highlighted with a green box), GE0/0/8, and GE0/0/9. Below the icons, there is a label 'Interface:' followed by a dropdown menu showing 'GigabitEthernet0/0/0'. A red warning message says 'Another connection mode is available for the interface. The new configuration will override the existing configuration.' At the bottom, there are 'Finish' and 'Cancel' buttons.

Before connecting to the Agile Controller, ensure that the system time is correct. Check system time settings.

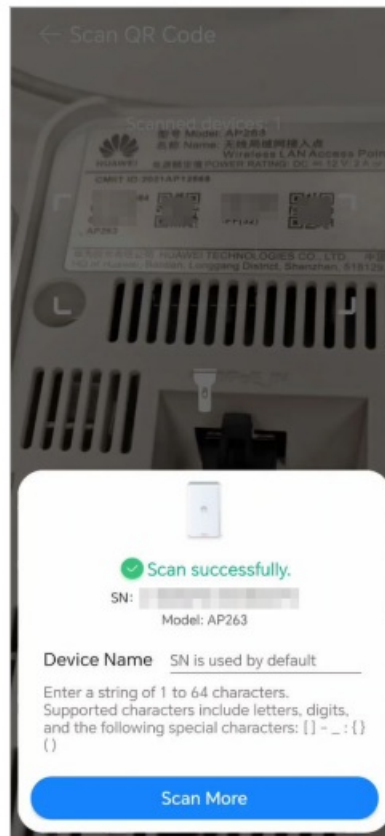
* Agile Controller address (domain name/IP): 190.92.198.197

* Port: 10020

VPN Instance: - Select -

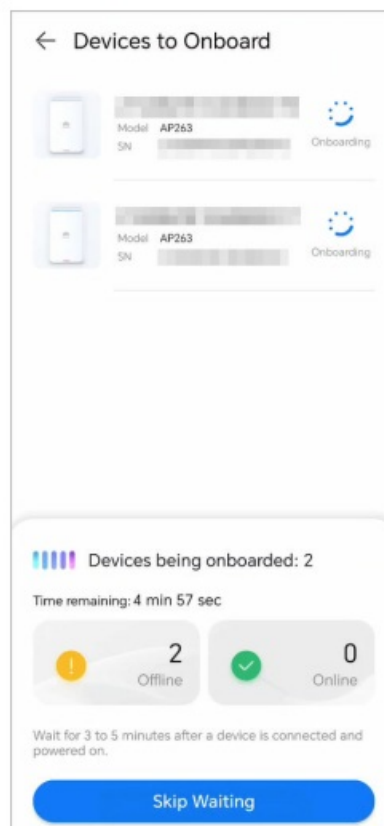
Apply Clear

- b. Scan the SN QR code of the device to add device information.



- c. Wait for a while till the device is automatically onboarded.

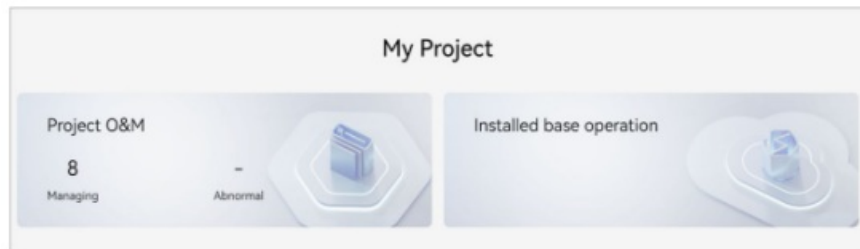
On a network where the S380 is deployed, after the S380 is onboarded through barcode scanning, it can automatically discover devices on the network and onboard them after device information is added.



Method 2: Onboarding and Managing Devices Through the Huawei eKit SME Network Center

1. Log in to the Huawei eKit SME Network Center.

Go to the Huawei eKit official website (<https://ekit.huawei.com>), click My Project, and then Project O&M.



2. Create a project.

3. Add device information.

You can manually enter SNs or import SNs in batches using a template.

4. Wait for a while till the device is automatically onboarded.

Prepare for gateway onboarding. For details.

On a network where the S380 is deployed, after the S380 is onboarded, it can automatically discover devices on the network and onboard them after device information is added.

FAQs

What Should I Do If Wi-Fi-based Deployment Fails?

Check whether the device supports Wi-Fi-based deployment. For details, see Precautions displayed on the app in the deployment process. Check the indicators on the device to determine whether the device is running properly. Check whether the device cables are properly connected. Check whether devices except the gateway use factory default settings. If the preceding check results are normal, contact technical support.

How Do I Restore the Factory Default Settings of a Device?

Unmanaged switches do not involve restoring factory default settings. A managed switch, AP, WAC, or gateway has a reset button. To restore the device to its factory default settings and restart the device, press and hold down the button for more than 6 seconds.

How Do I Manage and Configure Devices?

S110 series switches are unmanaged switches and do not need to be configured. Managed switches, APs, and gateways can be managed through the Huawei eKit app or independently configured through the web system.

Can the S380 manage the AP371?

The S380 V600R024C00 and later versions can manage the AP371.

How Is Power Supplied to Devices?

It is recommended that APs be powered by a PoE switch. You can also use a power adapter to supply power to APs. Switches and AR routers are powered through the delivered power cables or power adapters.

What Are the Possible Causes for the Failure to Log In to a Switch Through SSH?

If SSH login parameters are correctly configured on the switch but the login still fails, the SSH client may use a weak key algorithm. In this case, load the weak key algorithm plug-in on the switch.

What Should I Do to Log In to the Web System of an SME Network Device for the First Time?

Only a device with factory default settings can be logged in through the web system for the first time. To log in to a device through the web system, connect a PC to the device according to the table below, configure the IP address of the PC to be in the same network segment as the default IP address of the device, and access the default IP address of the device in a browser.

Category	Product Series	Default IP Address for the First Login to the Web System	Description
Gateway	AR303, AR303W, AR720, and AR730	https://192.168.112.1	<ul style="list-style-type: none">● Connect a PC to the network port marked with MGMT on the AR router.● Register an account upon the first login.
	S380	https://192.168.112.1	<ul style="list-style-type: none">● Connect a PC to any LAN port of the S380.● Register an account upon the first login.
Switch	S220, S310, S530, S620, S220S, and S310S	https://192.168.1.253	<ul style="list-style-type: none">● Since V600R023C00, you can log in to the web system of the S310.● Connect a PC to any network port of the switch.● Register an account upon the first login.
WLAN	SME Network WAC series	https://169.254.1.1	<ul style="list-style-type: none">● Connect a PC to any network port of the WAC.● Register an account upon the first login.
	SME Network AP series	https://192.168.254.254	<ul style="list-style-type: none">● The AP371 and AP673 do not support web system login.● Connect a PC to the AP management Wi-Fi network named hw_manage_XXXX (XXX indicates the last four digits of the AP's MAC address).● Register an account upon the first login.

App Support by Country/Region

The deployment and O&M functions of the Huawei eKit app are available only in some countries and regions. Open the Huawei eKit app, choose Me > System Settings, and switch to the desired country/region. If the Service tab is available on the app after you switch the country/region, the deployment and O&M functions of the Huawei eKit app are available. In this case, you can select SME Network on the Service tab page and perform deployments.

Table 8-1 lists the countries and regions covered by the Huawei eKit system at different sites.

Table 8-1 Countries and regions covered by the Huawei eKit system at different sites

No.	Southbound IP Address of the Huawei eKit System	Major Countries and Regions Covered
Site 1	190.92.198.197	United Arab Emirates, South Africa, Singapore, Indonesia, Hong Kong (China), South Korea, Japan, Malaysia, Thailand, Vietnam, Philippines, Bangladesh, Oman, Qatar, Mongolia, Pakistan, etc.
Site 2	119.8.213.82	Major countries and regions in Europe
Site 3	101.44.185.22	Mexico, Guatemala, Costa Rica, Panama, Honduras, El Salvador, Dominican Republic, Bahamas, Belize, Guyana, Jamaica, Nicaragua, Suriname, Trinidad and Tobago, etc.
Site 4	1.178.39.63	Brazil, Peru, Ecuador, Colombia, Chile, Bolivia, Uruguay, Paraguay, Argentina, etc.
Site 5	139.9.137.139	China

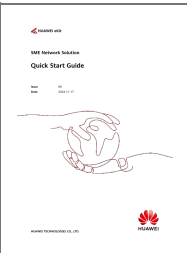
Related Documents and Videos

Category	Document/Video
All	SME Network Solution Deployment and Maintenance Guide
	SME Network Solution Multimedia Resource Bookshelf
Gateway	AR300 and AR700 Product Documentation
	S380 Product Documentation
	S380 Troubleshooting Guide
Switch	S110, S220, S310, S530, and S620 Product Documentation
	S220S and S310S Product Documentation
	SME Network S Switch Troubleshooting Guide (V600)
WLAN	SME Network WLAN Product Documentation


















Technical Support

- In the Huawei eKit app, find the intelligent customer service icon or tap the [WeiKnow](#) link for self-service query or ask questions online.
- Obtain technical support from the purchase channel.

Documents / Resources

	HUAWEI SME Network Solution [pdf] User Guide SME Network Solution, Network Solution
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References

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projectLabel=SME&platform=0&path=portal&projectId=027e6572-d3d8-4d02-a53d-
0cc120ec4c23&cmpName=home&isEditor=2](http://info.support.huawei.com/ta/miniportal/index.html#/preview?projectLabel=SME&platform=0&path=portal&projectId=027e6572-d3d8-4d02-a53d-0cc120ec4c23&cmpName=home&isEditor=2)
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idPath=24030814|259023469|259023623|259590357](http://support.huawei.com/enterprise/en/doc/EDOC1100300385?idPath=24030814|259023469|259023623|259590357)
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-  support.huawei.com/enterprise/en/doc/EDOC1100417672
-  [Huawei CloudCampus SME Product Documentation Sets - Huawei](#)
-  [Huawei CloudCampus SOHO Configuration & Commissioning - Huawei](#)
-  [Huawei AR300 and AR700 Routers Product Documentation Sets - Huawei](#)
-  [Huawei S100, S200, S300, S500 and S600 Switches Product Documentation Sets - Huawei](#)
-  [Huawei AC&AP WLAN Product Documentation Sets - Huawei](#)
-  [support.huawei.com/enterprise/zh/doc/EDOC1100280872/75e252a?
idPath=24030814|21782164|22712781|255353927](http://support.huawei.com/enterprise/zh/doc/EDOC1100280872/75e252a?idPath=24030814|21782164|22712781|255353927)
-  [support.huawei.com/enterprise/zh/doc/EDOC1100280872/cfc0210?
idPath=24030814|21782164|22712781|255353927](http://support.huawei.com/enterprise/zh/doc/EDOC1100280872/cfc0210?idPath=24030814|21782164|22712781|255353927)
-  [S100, S200, S300, S500, S600](#) -
-  [WeiKnow](#)
- [User Manual](#)