

Ronto Enterprise Networking Solution

User Manual

This manual includes the Controller, Enterprise Access Points and Ethernet Switches installation and configuration. All of the Access Points and Ethernet Switches are managed by Controller.

Supports model list

Type	Description
Enterprise Access Point	RAP630C-311G, RAP630W-311G, RAP630W-211G RAP7110C-341X
Ethernet Switch	RSW226G-1PV, RSW226G-1P, RSW226G-1V RSW226G-1, RSW226G-2PV, RSW210G-2PV, RSW210G-1PV, RSW210G-1V
Enterprise Access Point Controller	RCN205G-1PV

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1. Abstract

Our network status dashboard simplifies the task of managing the entire network. With its user-friendly interface, you can effortlessly monitor and control the status of your network in real-time.

The dashboard presents an intuitive overview of key network metrics, such as availability, performance, and security alerts. You can easily navigate through interactive charts and graphs to gain valuable insights and quickly identify any issues.

With just a few clicks, you can take proactive measures to optimize network performance, minimize downtime, and ensure a seamless experience for your users. Our user-friendly network status dashboard empowers you to handle network management with ease and efficiency.

The **Table** below shows the overview of each page.

Name	Description
Dashboard	Offers comprehensive information, including controller details, Traffic Overview, Client Table, Wi-Fi Quality, and Internet Health, all presented through intuitive charts for easy understanding of the network's current status
Topology	Displays a network topology, where each node is labeled as either a Controller, EAP, or end-user device. Additionally, each node is identified by name and provides relevant information
Connected Devices	lists all connected devices includes EAPs and client-devices and displays detail information about each of them
Statistics	provides statistics of upload, download and services
Wi-Fi Insights	shows a comprehensive list of Wi-Fi access points (APs) around the network
Settings	shows all other setup include Wi-Fi, Network, Internet, Static Route, Firewall, Port Forwarding, and System

2. Installation

2.1 RCN205G-1PV Hardware Installation

RCN205G-1PV Indoor Enterprise Network Controller Quick Setup Guide

This Quick Setup Guide provides step-by-step instructions on how to install and begin using your RCN205G-1PV Indoor Enterprise Network Controller (Controller).

2.1.1 RCN205G-1PV Hardware Specification

Models	RCN205G-1PV
Dimension H x W x D (mm)	55.1x194.5x140.5
Ports	
1GBase-T PoE+ LAN Ports	4
1GBase-T WAN Port	1
Power over Ethernet ports	4 x 802.3at (30W/port)
LCD	
LCD touch panel	1.3"
Power and Cooling	
Max. PoE power budget (Watt)	60
PoE Output	54VDC · 0.55A, Max.30Watt (port 1-4)
Rated Voltage	54V DC
Rated Current	1.2 A
Power options	External Power Adapter 100~240AC input, 54V DC output
Airflow	without fan
Operating Temperature	0°C~40°C / 32°F~104°F
Operating Humidity	10% ~ 95% · No Condensation

2.1.2 Overview

Upon following the steps outlined in this guide, you will be able to access the RCN205G-1PV Ronto Controller, allowing you to manage wired and wireless network.



FIGURE 1: RCN205G-1PV Controller: Front View.

2.1.3 Package Contents

A complete RCN205G-1PV installation package includes all of the following items:

- RCN205G-1PV Controller.
- 54V 1.2A power adapter.
- Service Level Agreement/Limited Warranty Statement (Optional).
- Declaration of Conformity (Optional).
- Regulatory Statement (Optional).
- This Quick Setup Guide (Electrical).

2.1.4 Required Hardware Tools

- Admin PC (computer) with an Ethernet port.
- Cat 5e (or better) Ethernet cable.
- RCN205G-1PV 54V 1.2A power adapter.

2.1.5 Installation Steps

> Step 1:

Connecting Your Controller to the Computer

1. Using the RCN205G-1PV 54V 1.2A Power adapter to connect your Controller. The system power on and then the LCD starts to show the message. FIGURE 2: RCN205G-1PV Controller DC in jack on Rear Panel.

FIGURE 2: RCN205G-1PV Controller DC in jack on Rear Panel

 Please note:

1. Please use the power adapter shipped with the device. The different power adapter will damage the device.
2. The Controller has embedded a BT module with internal antennas. When the Controller is installed, the antennas are at least more than 20 centimeters of a person's body.



2. Using an Ethernet cable, connect your computer network port to the LAN port on the Controller. Refer to Figure 3.

FIGURE 3: RCN205G-1PV Controller Ethernet ports on Front Panel.



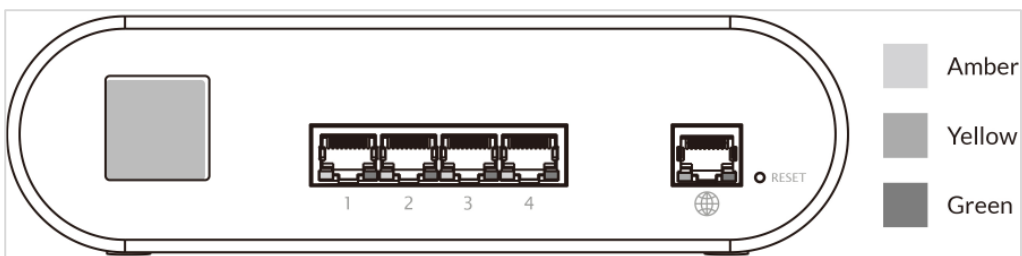
TABLE 1: RCN205G-1PV Front Ports.

No.	Label	Description
1.		10/100/1000 Mbps In Port: RJ-45 Ethernet port.
2.	1,2,3,4	10/100/1000 Mbps In Port: RJ-45 Ethernet port - Support 802.3af/at PoE.
3.	RESET	This is a reset button to reset the Controller to factory default.

3. Verify that the LCM panel show the “Ready for Setup”.

4. The LED indicators are shown in below TABLE 2.

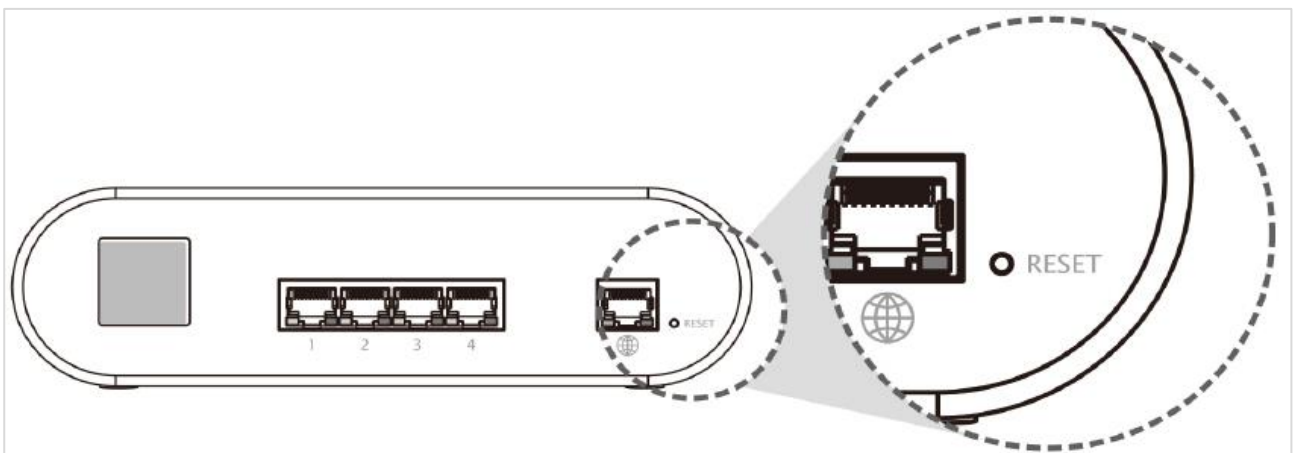
TABLE 2: RCN205G-1PV LED Indicators.



LED Indicator	Color	Behavior	Function Descriptions
1, 2, 3, 4 (for LAN ports)	Green	Solid	The port links up.
	Green	Blinking	There are transmitting or receiving Ethernet packets in this port.
	Green	Solid	The port is providing PoE power to PD.
	Amber	Solid	The port links up at 1Gbps speed.
	Green	Blinking	There are transmitting or receiving, Ethernet packets in this port.
	Green	Solid	The port links up at 10M/100M speed.
	Yellow	Blinking	There are transmitting or receiving Ethernet packets in this port.

5. The RESET button behaviors are shown in below **TABLE 3**.

TABLE 3: RCN205G-1PV RESET Button Function Description.



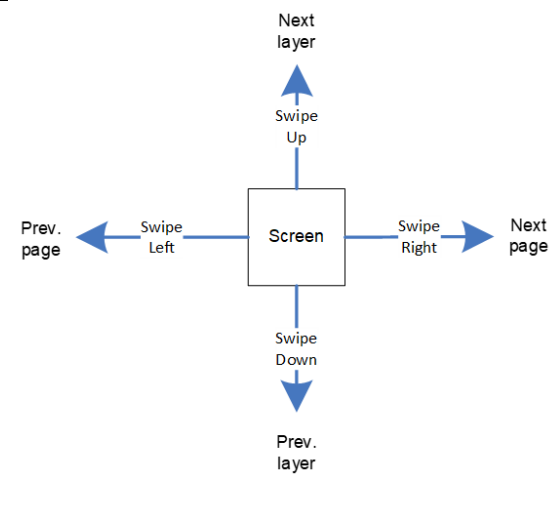
Press time	Function Description
< 1 second	The system will reboot.
> 6 seconds	The system will reset the configuration to factory default.

2.1.6 Controller LCD Touch Screen

2.1.6.1 Swipe Screen Description

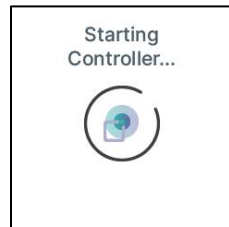
Swipe Screen	Action	Description/ Function
Layer I	Press	Type Layer II Screen
	Swipe Up/ Download	Next Layer / None
	Swipe Right/ Left	Previous / Next Page(Item)
Layer II	Press	None
	Swipe Up/ Download	Next Layer / Previous
	Swipe Right/ Left	Previous / Next Page
Screen-Saver ¹	Press	Stop

The Controller becomes idle and the screensaver will activate after 5 minutes.

	Up swipe	Next Layer
	Down Swipe	Previous Layer
	Right / Left Swipe	Item Check
	Click	Enter / Monitor Protection Cancel

- Controller

*Layer0-1 :Starting
Controller...*



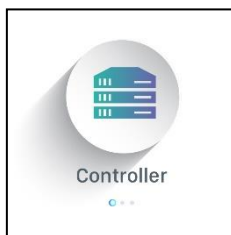
Controller is booting up

Ready for Setup(Web)

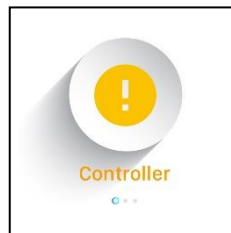


Ready for Setup / Install
the local interface.

Layer1-1 : Controller Screen

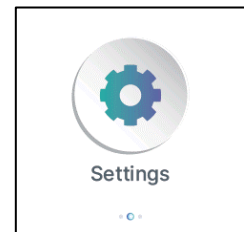


Controller Screen(Error)

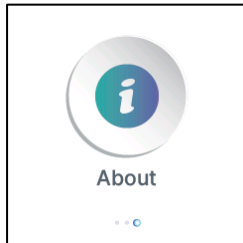


There is a need to update
firmware.

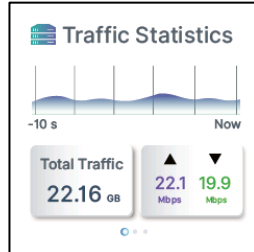
Layer1-2 : Settings Screen



Layer1-3 : About Screen



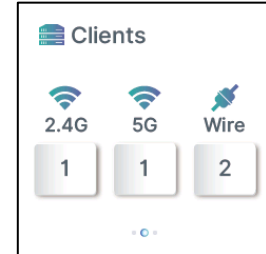
Layer2-1-1 :
Traffic Statistics(Controller)



Function 1: Display total traffic, upload, and download traffic (in kB, MB, and GB) (Update every minute)

Function 2: Display traffic over a period of one month in a chart, with one data point every half day

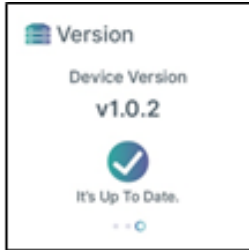
Layer2-1-2 :
Clients(Controller)



Function: Display the number of clients for 2.4G, 5G, and Wired connections

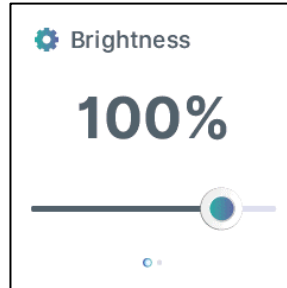
(Update every minute)

*Layer2-1-3 :
Version(Controller)*



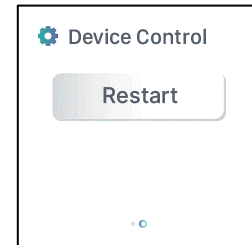
Function: Display the current Controller version

*Layer2-2-1 :
Brightness(Settings)*



Function: Adjust the LCM screen brightness

*Layer2-2-2 :
Device Control(Settings)*



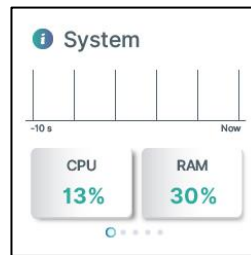
Function: Control Controller restart

Layer2-2-3 : Color(Settings)



Function: Adjust LCM background color

Layer2-3-1 : System (About)



Function 1: Display CPU and RAM usage

(Update every minute)

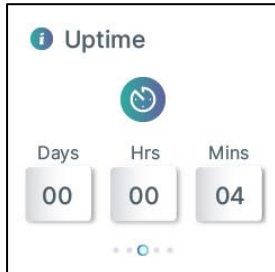
Function 2: Display traffic over a period of 5 hours in a chart, with one data point every 5 minutes

Layer2-3-2 : IP Address (About)



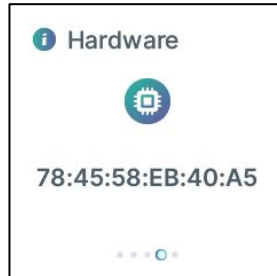
Function: Display WAN and LAN IP addresses (WAN IP address displays as 0.0.0.0 if not connected)

Layer2-3-3 : UpTime(About)



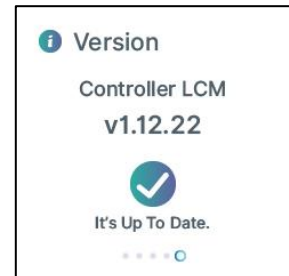
Function: Up Time (Update every minute)

Layer2-3-4 : Hardware (About)

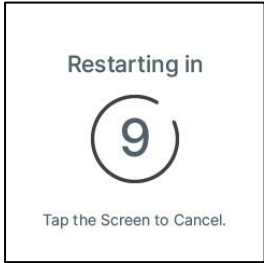


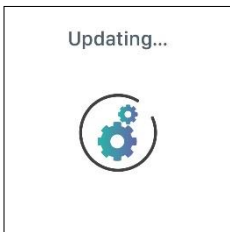
Display Controller's MAC address

Layer2-3-5 : Version (About)

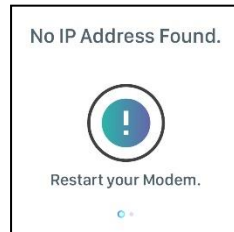


Display Controller's LCM version

Restarting in	Restarting...	Resetting to Factory Defaults...
		
Function: Touch to cancel restart and return to Device Control screen	Restarting in progress	Function: Displayed when Factory Defaults is initiated. Trigger conditions include physical button on the Controller, LCM button, and web operation.

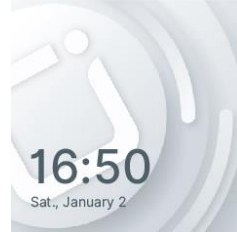
Finishing Up	Updating...
	
	Controller is updating the firmware.

No IP Address Found



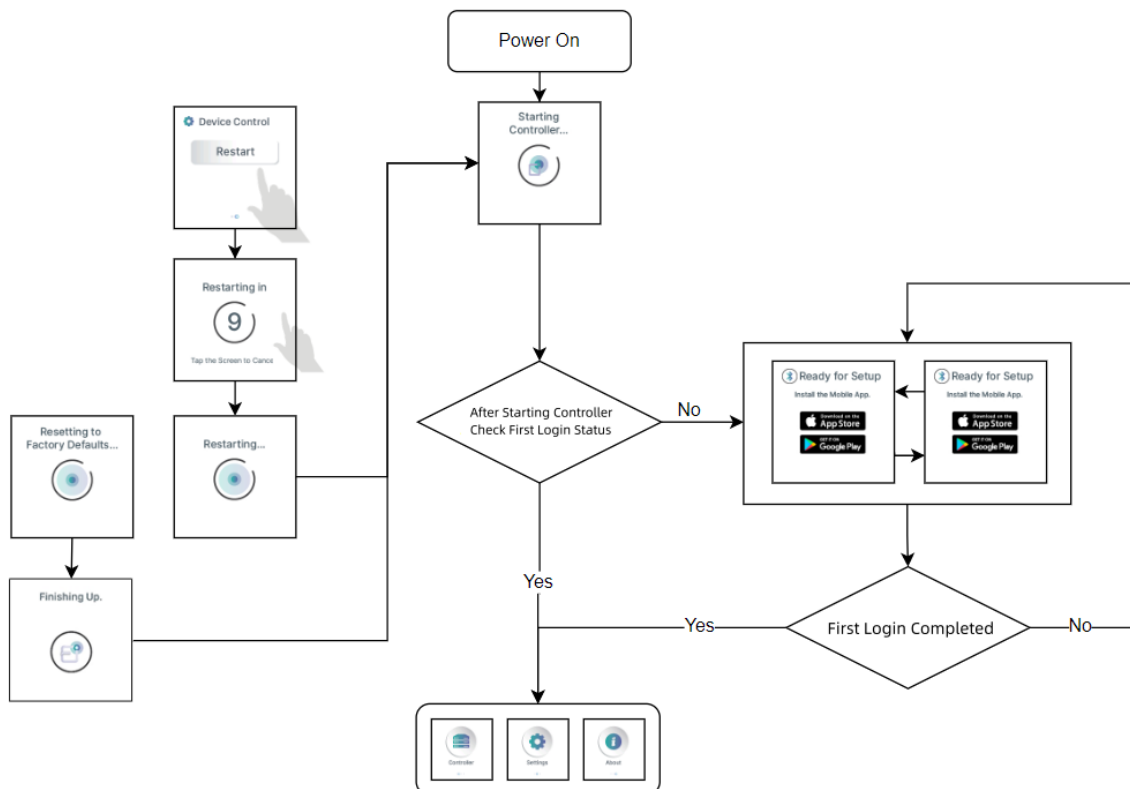
No IP Address Found

Screen-Saver

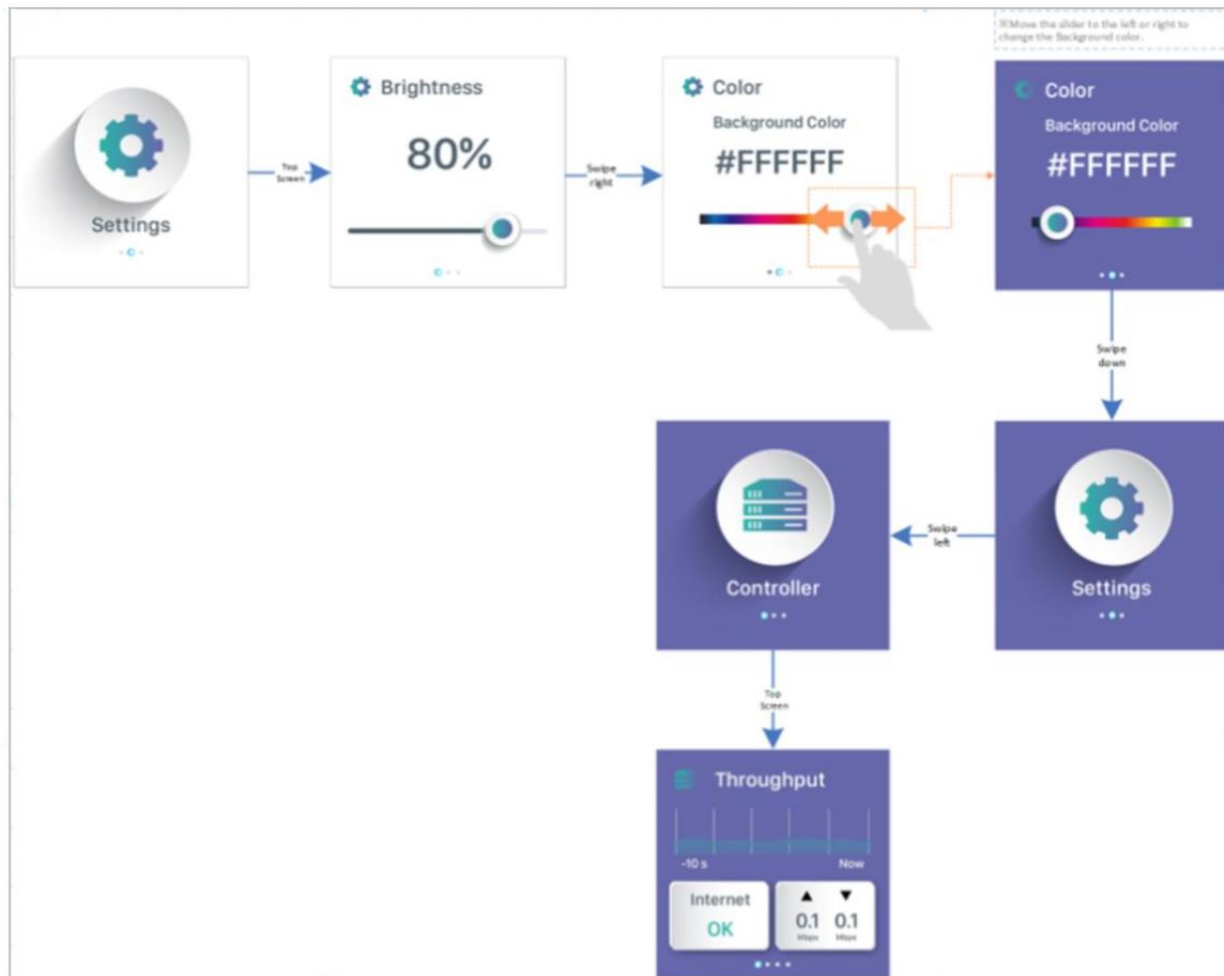


Function: Display current time in 24-hour format (hours:minutes), abbreviated day of the week, month, and date

1. Activation process



- Change Color

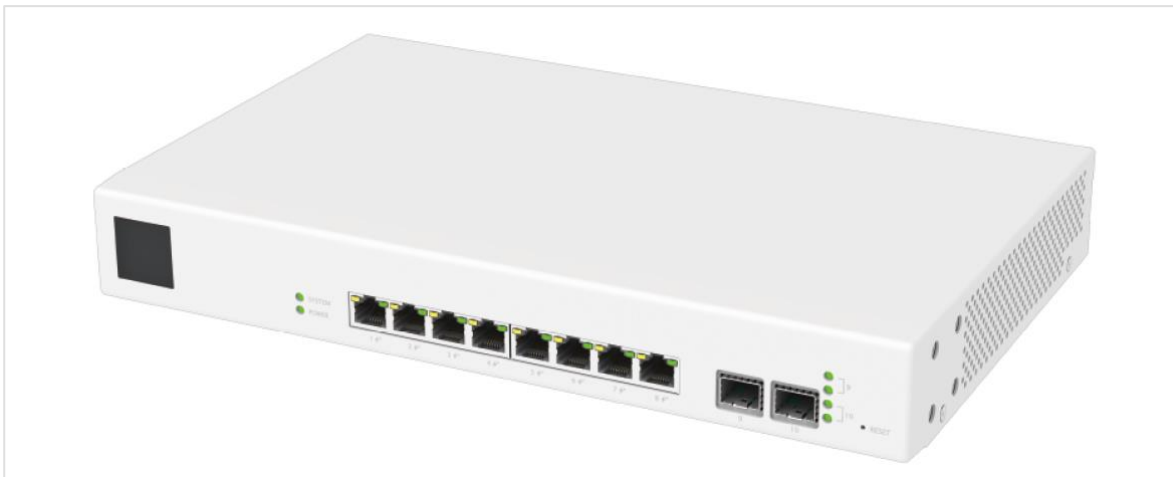


2.2 RSW210G Series Hardware Installation

This Quick Setup Guide provides step-by-step instructions on how to install and begin using your RSW210G-1PV/2PV and RSW210G-1V Ethernet Switch (Switch). The RSW210G-1PV Ethernet switch is a 8 Gigabit PoE ports with 120Watt PoE power budget and two 10G SFP+ port. This is a fanless hardware design.

The RSW210G-2PV Ethernet switch is a 8 Gigabit PoE ports with 240Watt PoE power budget and two 10G SFP+ port. There is a smart fan hardware design. RSW210G-1V is a 8 Gigabit ports and two 10G SFP+ ports. This is a fanless hardware design. These switches also support BT4.1 module for management.

FIGURE 1: RSW210G Series Ethernet Switch Overview.



Package Contents

A complete RSW210G-1PV/2PV, RSW210G-1V installation package includes all of the following items:

- One Ethernet switch.
- One power cord.
- One set rubber feet.
- One set L bracket with 8 screws.
- Service Level Agreement/Limited Warranty Statement (optional).
- Declaration of Conformity (optional).
- Regulatory Statement (optional).
- This Quick Setup Guide.

Required Hardware Tools

- Admin PC (computer) with an Ethernet port.
- Cat 5e (or better) Ethernet cable.
- A controller.

Overview

The following figures are shown the RSW210G-1PV/2PV's front view and rear view:

FIGURE 2: RSW210G-1PV/2PV & RSW210G-1V Front View.

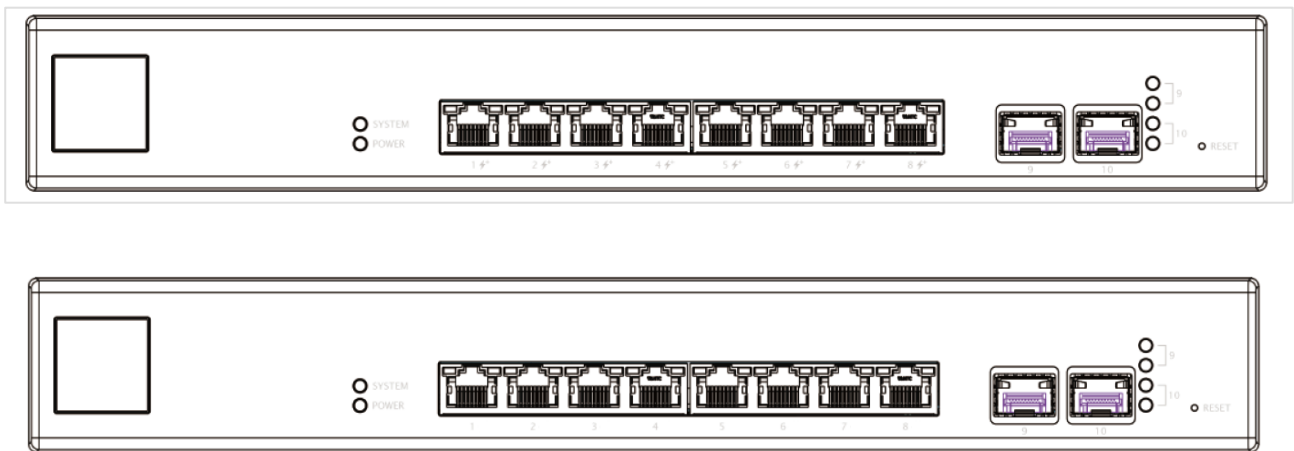


TABLE 1-1: RSW210G-1PV/2PV Front Ports.

No.	Label	Description
1	1~8 ⚡ ⁺	• 10/100/1000Mbps RJ-45 ports. • Support 802.3af/at PoE.
2	9, 10	1Gbps/10Gbps SFP+ port.
3	RESET	This is a reset button to reset the switch to factory default or do the system reboot.

TABLE 1-2: RSW210G-1V Front Ports.

No.	Label	Description
-----	-------	-------------

1	1~8	• 10/100/1000Mbps RJ-45 ports.
2	9, 10	1Gbps/10Gbps SFP+ port.
3	RESET	This is a reset button to reset the switch to factory default or do the system reboot.

FIGURE 3: RSW210GSeries Rear View.

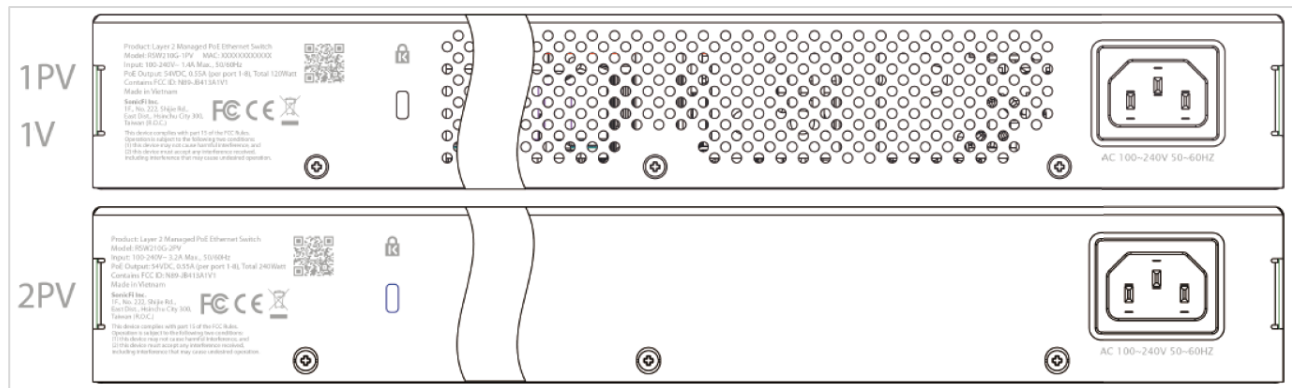


TABLE 2: RSW210G-1PV/2PV Rear Panel.

No.	Label	Description
1	Label Contents	The contents are included model name, power rating, Contains FCC ID and company information.
2	AC Power Inlet	The power input is 100~240VAC, 50/60Hz.

3		Kensington security slot.
---	---	---------------------------

There is a RESET button on the front panel. The behaviors are shown in below TABLE 3.

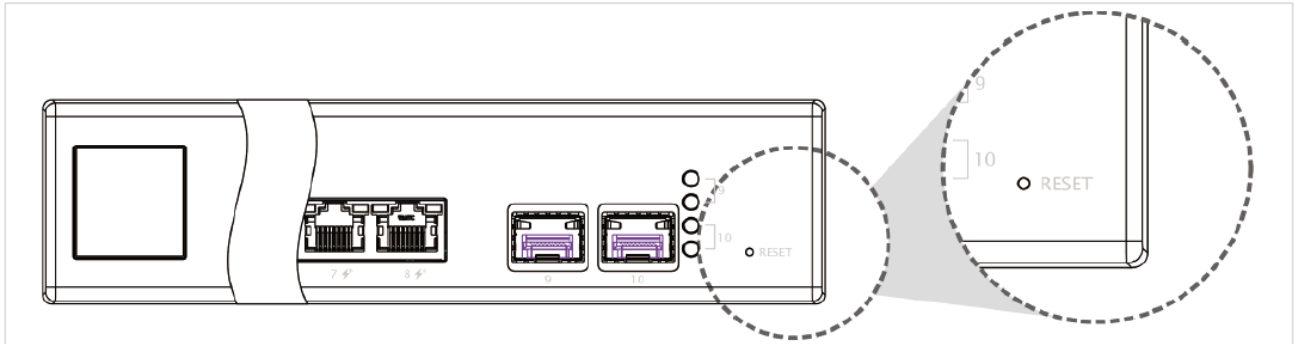


TABLE 3: RESET Button Function Description.

Press time	Description
1~10 second	The system will reboot.
> 10 seconds	The system will reset the configuration to factory default.

LCD Indicator

When the switch powers on, the LCD turns on automatically. This is a touch screen and support user to swipe screen to have different functions. Please check user manual to have detail function descriptions of LCD.

LED Indicators

TABLE 4: RSW210G-1PV/2PV and RSW210G-1V LED Indicators.

LED Indicator	Color	Behavior	Function Descriptions
SYSTEM	Green	Solid	The Switch system is ready
		Blinking	The Switch system is booting up
	Red	Solid	There is at least one alert happened
	OFF		The Switch is no longer receiving power.
POWER	Green	Solid	The switch has been powered on successfully.
		OFF	The switch is no longer receiving power.
PoE ports	Green	Solid	The port links up
		Blinking	There are transmitting or receiving Ethernet packets in this port
		OFF	No link is detected
	Yellow	Solid	The port is providing PoE power to PD.
		OFF	No PD is detected
Non PoE ports	Green	Solid	The port links up
		Blinking	There are transmitting or receiving Ethernet packets in this port
		OFF	No link is detected
	Yellow	Solid	The port links up in 1Gbps speed.
		OFF	The port links up in non 1Gbps speed or no link is

			detected
9,10 SFP+ ports	Green	Solid	The port links up
		Blinking	There are transmitting or receiving Ethernet packets in this port.
		OFF	No Link is detected.
		Solid	10Gbps link speed is detected.
		OFF	1Gbps link speed is detected or no link.

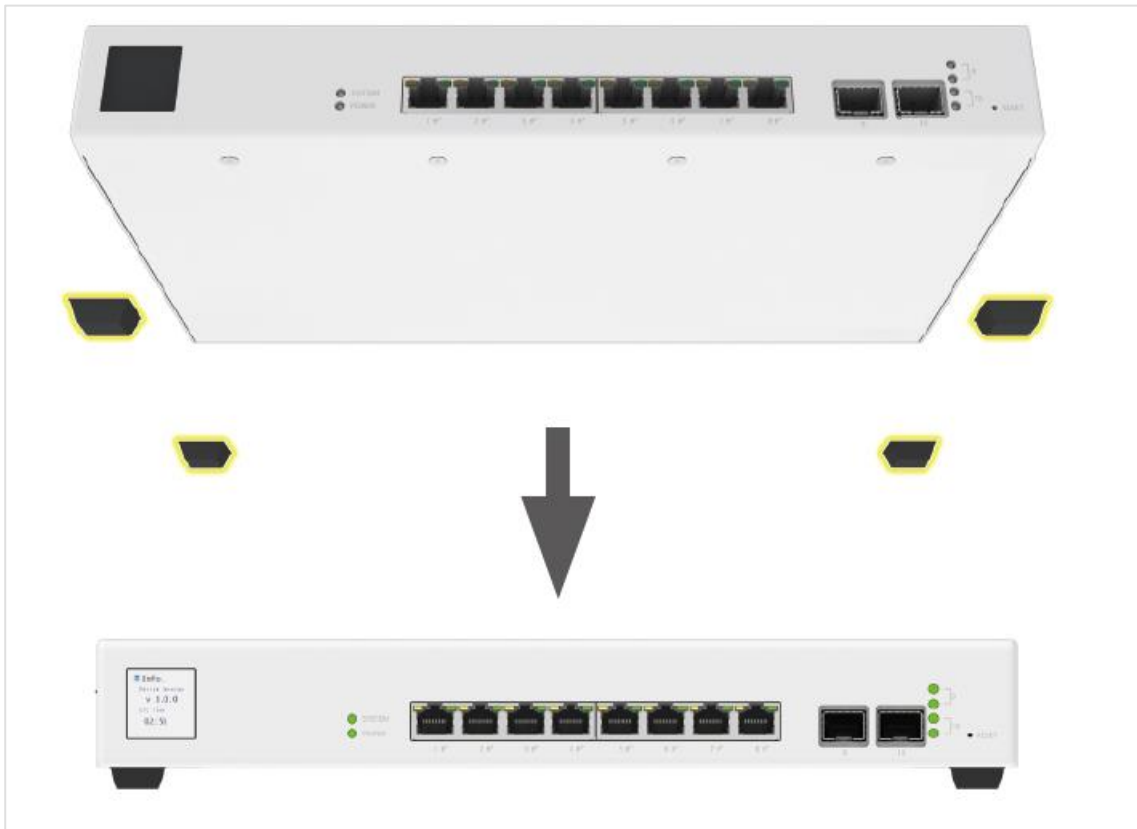
Installation for RSW210G series

>Step 1: Mounting the switch

Type 1: Desktop installation

Please paste the rubber feet in the back of bottom case. There are four markings for the rubber feet.

FIGURE 4: Paste the rubber feet.



Type 2: Wall Mounting

Please use the included screws with L brackets to attach switch.

FIGURE 5: Attach the brackets.



Please note:

Using other accessories and screws could damage the switch. The damages occurred by using unapproved accessories are not covered by the warranty.

After the brackets are installed, please refer below pictures to mount the switches on the wall. We consider the heat dissipation performance to support two directions of wall mounting. Please follow below figures to install.

FIGURE 6: Two wall mounting directions.



Please note:

Please follow this guide's installation to mount the switch. It can protect the device without damage.

Type 3: Rack Mounting (Optional)

This switch also supports the rack mounting with special L brackets.

Please contact your sales to order the brackets.

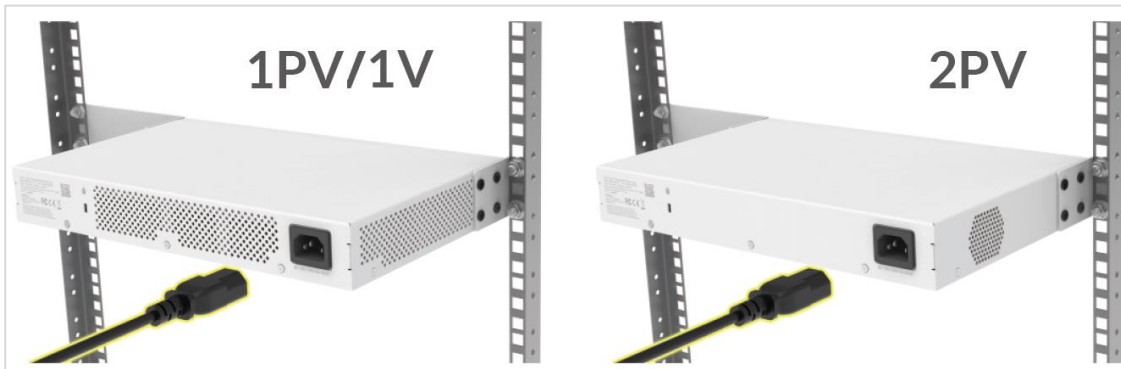
FIGURE 7: Rack mounting on the rack.



>Step 2: Connect the power cord

Please connect the power cord to the switch.

FIGURE 8: Connect the power cord of RSW210G-1PV or RSW210G-2PV switch.



Please note:

1. Please turn off the power source before the installation is completed.
2. The switch has embedded a BT module with internal antennas.

When the switch is installed, the antennas are at least more than 20 centimeters of a person's body.

>Step 3: Connect the Ethernet cable or Fiber transceiver

Please connect the Ethernet cable to the switch. Please also connect to controller in another side.

FIGURE 9: Ethernet cable / fiber transceiver connection.



FCC:**Federal Communication Commission Interference Statement**

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 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 Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this 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.

IMPORTANT NOTE:**FCC Radiation Exposure Statement:**

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

2.2.1 RSW210G Series Hardware Specification

Models	RSW210G-1PV	RSW210G-2PV	RSW210G-1V
Dimension H x W x D (mm)	44x330x200		
Performance			
Switch capacity (Gbps)	56	56	56
Forwarding capacity (Mpps)	41.66	41.66	41.66
Ports			
1GBase-T	8	8	8
1G/10G (SFP+)	2	2	2
Power over Ethernet ports	8 x 802.3at (30W/port)	8 x 802.3at (30W/port)	–
LCD			
LCD touch panel	1.3”	1.3”	1.3”
Power and Cooling			
Max. PoE power budget (Watt)	120	240	–
PoE Output	54VDC, 0.55A (per port 1-8)		–
Power options	AC 100~240V, 1.74A Max.	AC 100~240V, 3.5A Max.	AC 100~240V, 0.20A Max.
Internal power supply	1 PSU included		
Airflow	Fanless	Smart FAN	Fanless

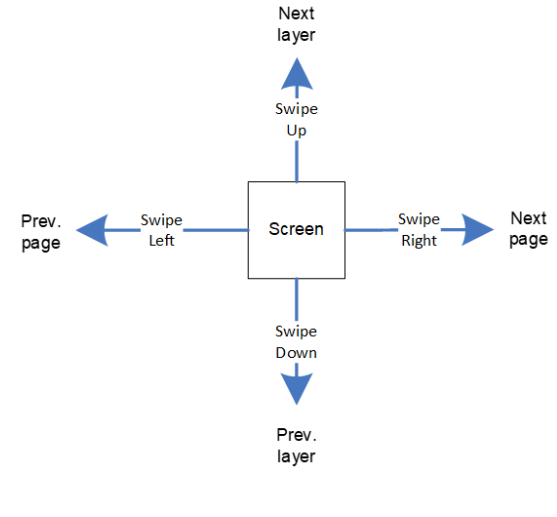
Operating Temperature	0°C~40°C / 32°F~104°F	0°C~50°C / 32°F~122°F
Operating Humidity	10% ~ 95%, Non-condensing	

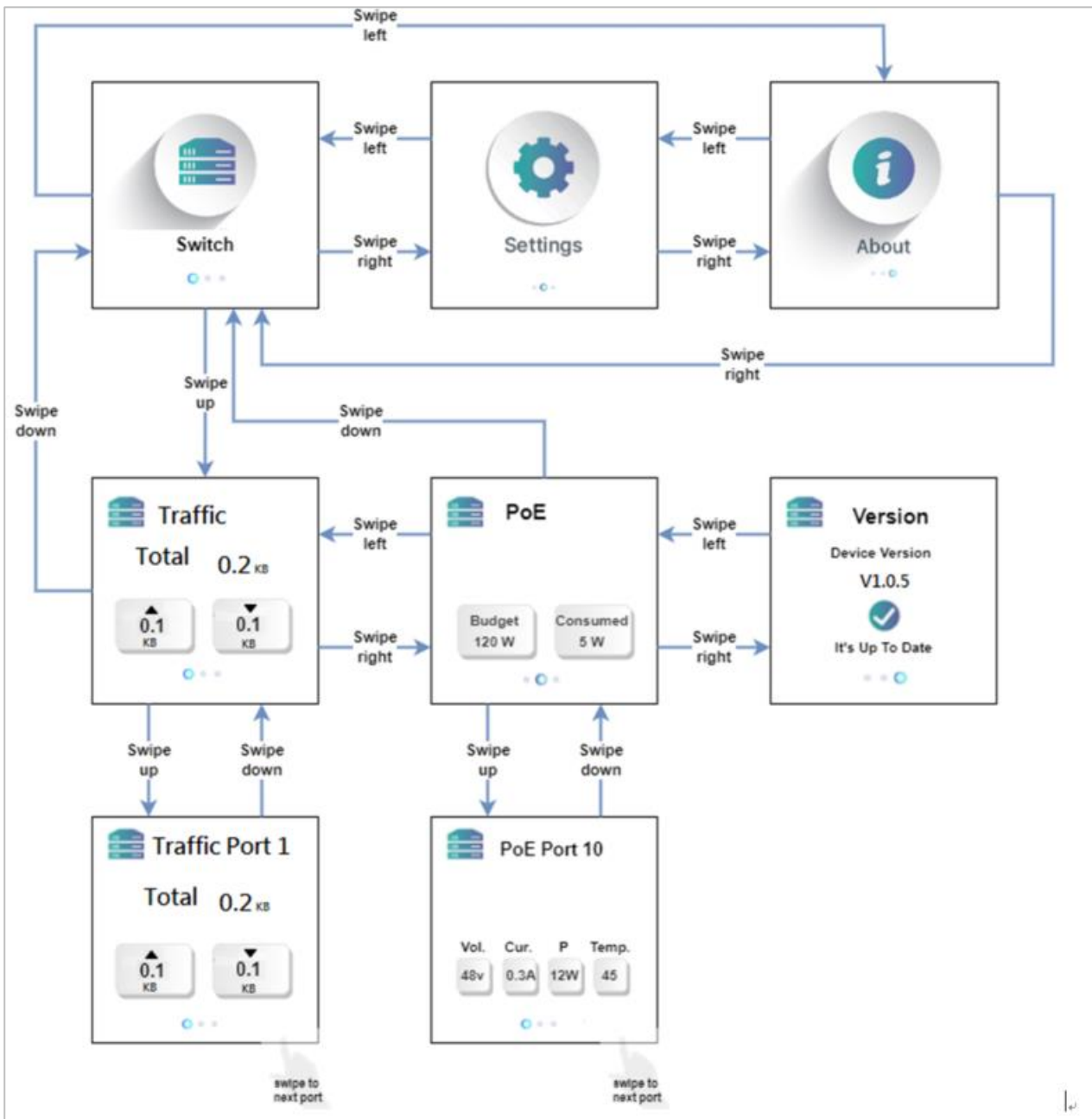
2.2.2 Switch LCD Touch Screen

2.2.2.1 Swipe Screen Description

Swipe Screen	Action	Description/ Function
Layer I	Press	Type Layer II Screen
	Swipe Up/ Download	none
	Swipe Right/ Left	Previous / Next Page(Item)
Layer II	Press	Start Screen-Saver
	Swipe Up/ Download	Next Layer / Previous
	Swipe Right/ Left	Previous / Next Page
Screen-Saver*	Press	Stop

* The Controller becomes idle and the screensaver will activate after 5 minutes.

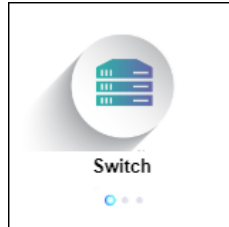
	Up Swipe	Next Layer
	Down Swipe	Previous Layer
	Right / Left Swipe	Item Check
	Press	Enter and Monitor Protection Cancel



2.2.2.2 Switch Label

Layer I

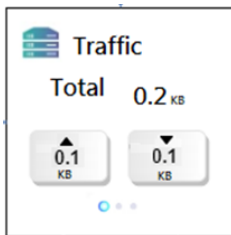
Layer 1-1 : Switch



Switch related information
group page

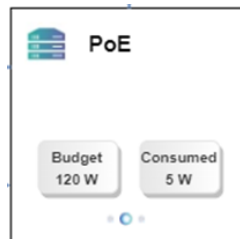
Layer II

Layer 2-1-1 Switch/Traffic



Function: Display the current Tx and Rx total traffic of 10 ports

Layer 2-1-2 Switch/PoE



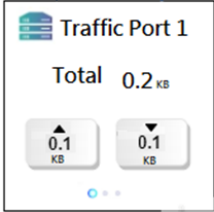
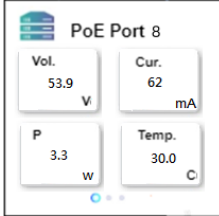
Function: Display the current power information of 8 ports

Layer 2-1-3 Switch/Version



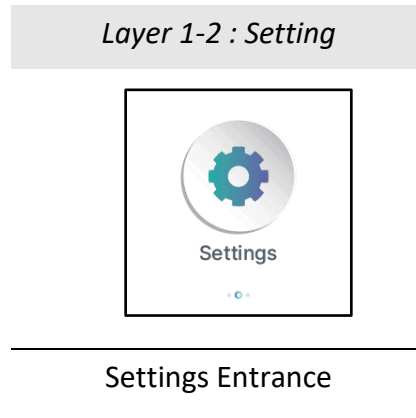
Function: Display the current Switch version

Layer III

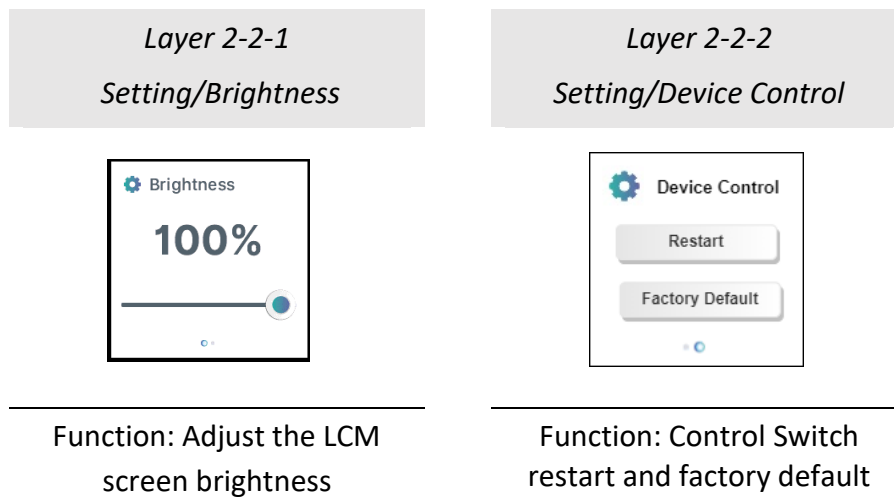
Layer 3-1-1-1 Switch/Traffic/Port	Layer 3-1-2-2 Switch/PoE/Port
	
Function: Display the current Tx and Rx traffic for each port	Function: Display the current voltage, current, power, and temperature for each PoE port

2.2.2.3 Setting Label

Layer I

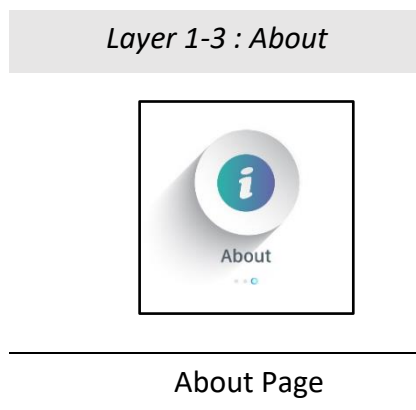


Layer II



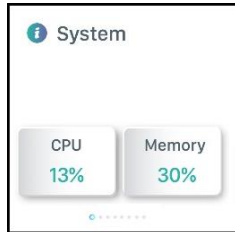
2.2.2.4 About Label

Layer I



Layer II

Layer 2-3-1 About/System



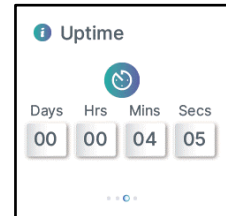
Function: Display CPU,
Memory usage

Layer 2-3-2 About/IP Address



Function: Display Switch
IP

Layer 2-3-3 About/Uptime



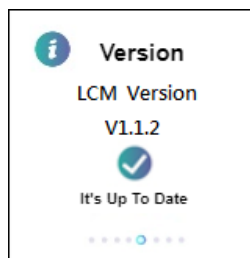
Function: Up Time

Layer 2-3-4 About/MAC



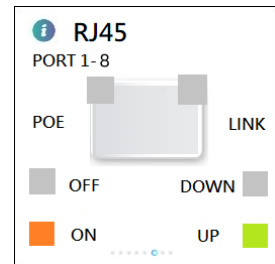
Display the device MAC
address.

Layer 2-3-5 About/LCM Version

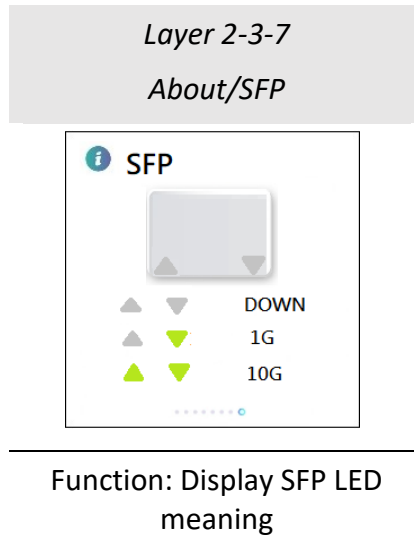


Function: Display LCM
Version

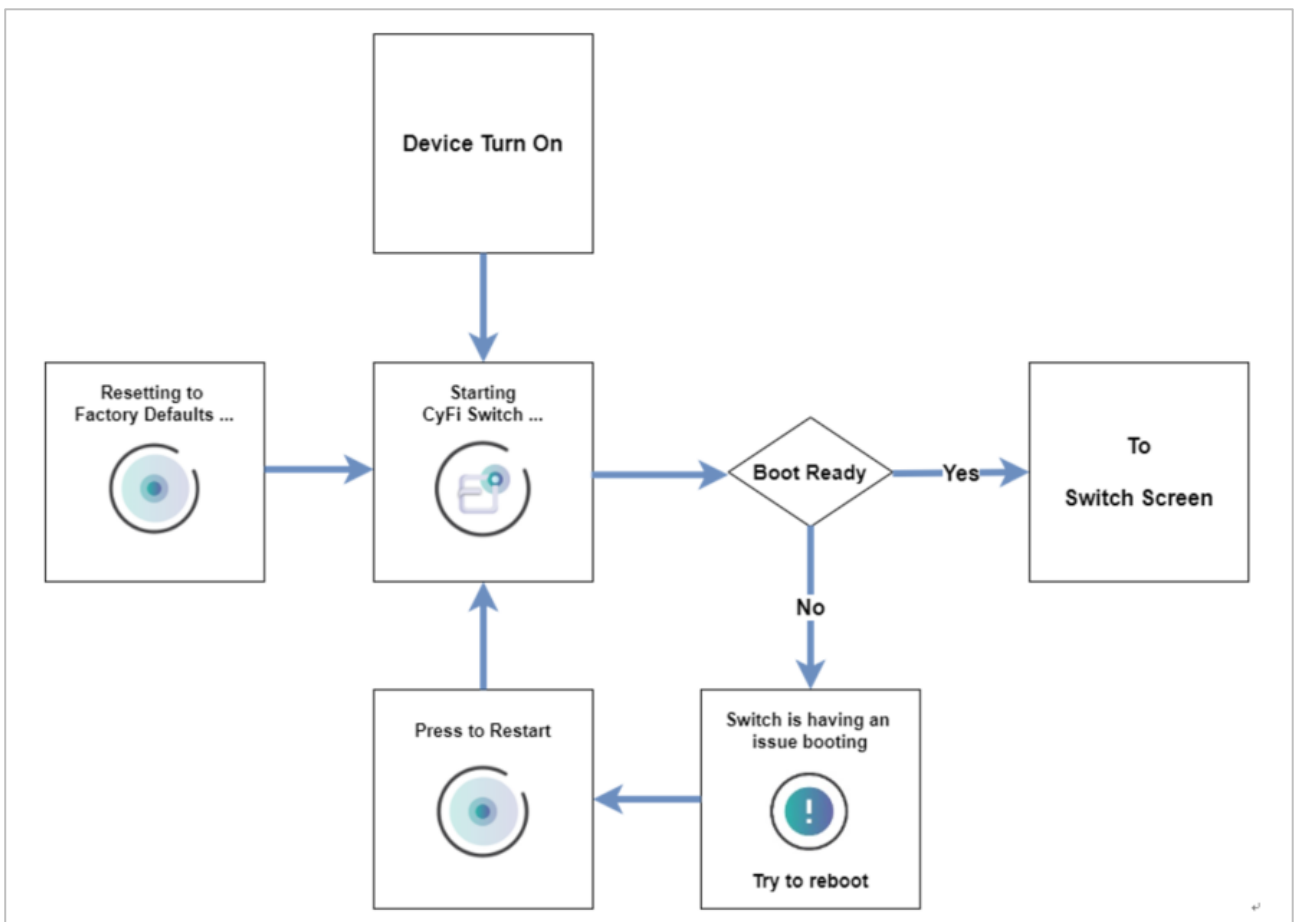
Layer 2-3-6 About/ PoE Port Info



Function: Display Port
1-8 LED meaning



2.2.2.5 Active process



2.3 RSW226G Series Hardware Installation

The following figures are shown the RSW226G series front view and rear view:

2.3.1 Overview

FIGURE: RSW226G-1PV Front View

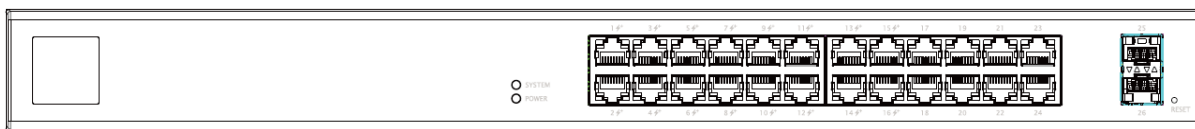


FIGURE: RSW226G-1P Front View

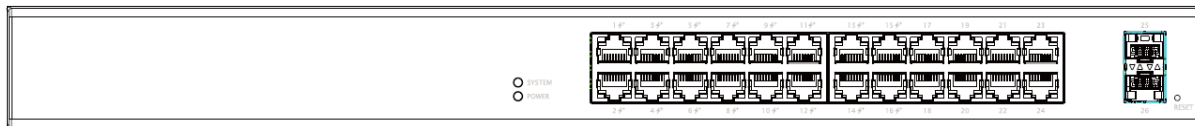


FIGURE: RSW226G-1V Front View

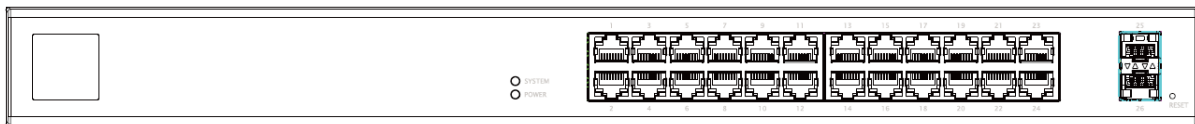


FIGURE: RSW226G-1 Front View

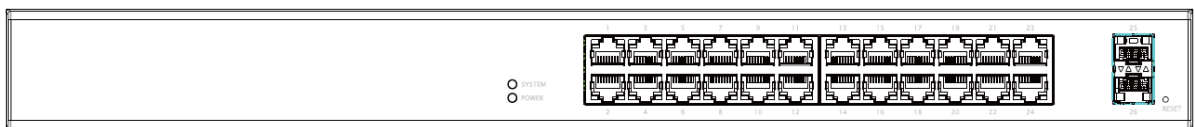


FIGURE: RSW226G-2PV Front View

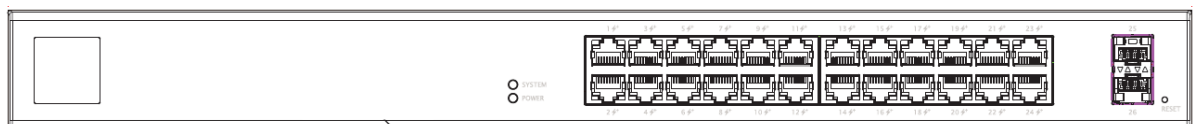


TABLE: RSW226G-1PV/RS226G-1P Front Ports

No.	Label	Description
1	1~16 ⚡	• 10/100/1000Mbps RJ-45 ports • Support 802.3af/at PoE
2	17~24	10/100/1000Mbps RJ45 Port
3	25,26	1Gbps/10Gbps SFP+ port
4	RESET	This is a reset button to reset the Switch to factory default or do the system reboot.

TABLE: RSW226G-1V/RS226G-1 Front Ports

No.	Label	Description
1	1~24	10/100/1000Mbps RJ-45 ports
2	25,26	1Gbps/10Gbps SFP+ port
3	RESET	This is a reset button to reset the Switch to factory default or do the system reboot.

TABLE: RSW226G-2PV Front Ports

No.	Label	Description
1	1~24 ⚡	• 10/100/1000Mbps RJ-45 ports • Support 802.3af/at PoE
2	25,26	1Gbps/10Gbps SFP+ port
3	RESET	This is a reset button to reset the Switch to factory default or do the system reboot.

TABLE: RSW226G series Rear Panel

No.	Label	Description
1	Label Contents	The contents are included model name, power rating, Contains FCC ID and company information.
2	AC Power Inlet	The power input is 100~240VAC, 50/60Hz.

There is a RESET button on the front panel. The behaviors are shown in below TABLE.

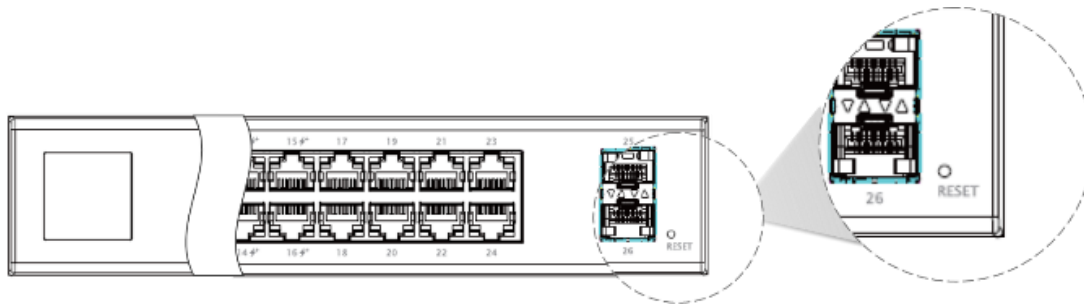


TABLE 3 RESET Button Function Description

Press time	Function Description
< 10 seconds	The system will reboot
> 10 seconds	The system will reset the configuration to factory default

2.3.2 LCD Indicator

When the Switch powers on, the LCD turns on automatically. This is a touch screen and support user to swipe screen to have different functions. Please check user manual to have detail function descriptions of LCD.

2.3.3 LED Indicators

TABLE: RSW226G Series LED Indicators

LED Indicator	Color	Behavior	Function Descriptions
SYSTEM	Green	Solid	The Switch system is ready
		Blinking	The Switch system is booting up
	Red	Solid	There is at least one alert happened
	OFF		The Switch is no longer receiving power.
POWER	Green	Solid	10Gbps link speed is detected
		OFF	1Gbps link speed is detected or no link
PoE ports	Green	Solid	The port links up
		Blinking	There are transmitting or receiving Ethernet packets in this port
		OFF	No link is detected
	Yellow	Solid	The port is providing PoE power to PD.
		OFF	No PD is detected
Non-PoE ports	Green	Solid	The port links up
		Blinking	There are transmitting or receiving Ethernet packets in this port

	Yellow	OFF	No Link is detected
		Solid	1000Mbps link speed is detected
		OFF	10/100Mbps link speed is detected
25,26 SFP+ ports	Green	Solid	The port links up
		Blinking	There are transmitting or receiving Ethernet packets in this port
		OFF	No Link is detected
	Green	Solid	10Gbps link speed is detected
		OFF	1Gbps link speed is detected or no link

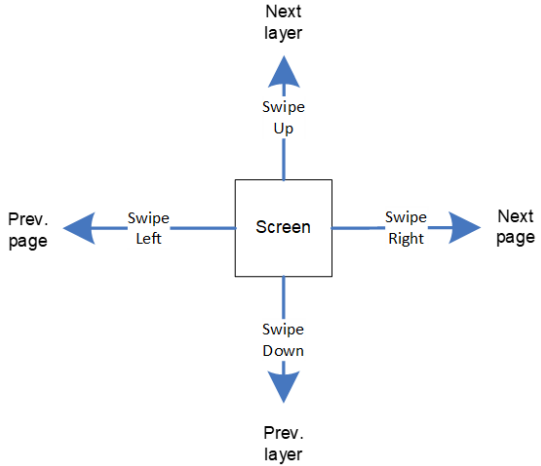
Note: The LED indicator $\triangle$ means the upper SFP+ port; ∇ means the lower SFP+ port.

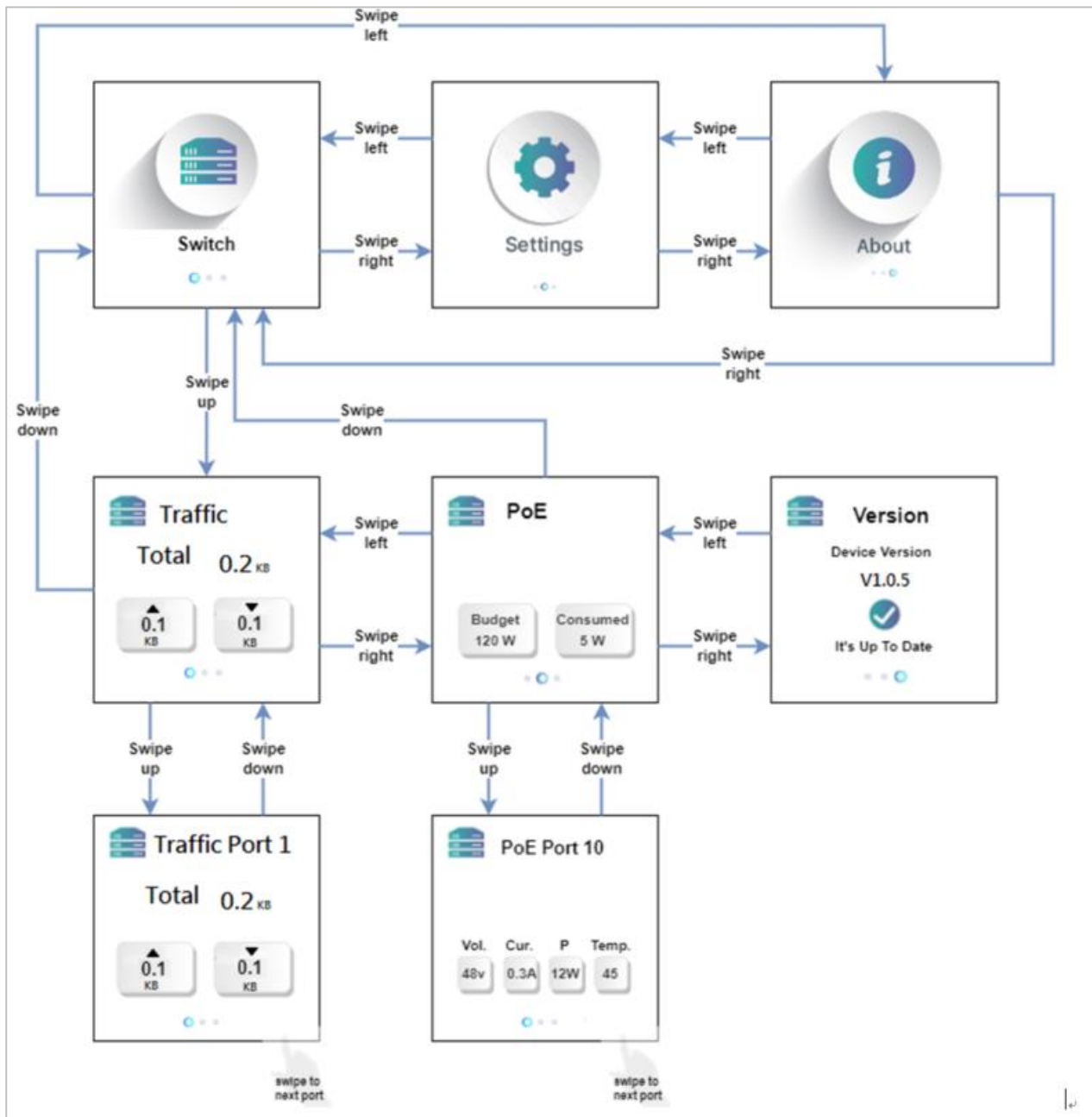
2.3.4 Switch LCD Touch Screen

2.3.4.1 Swipe Screen Description

Swipe Screen	Action	Description/ Function
Layer I	Press	Type Layer II Screen
	Swipe Up/ Download	none
	Swipe Right/ Left	Previous / Next Page(Item)
Layer II	Press	Start Screen-Saver
	Swipe Up/ Download	Next Layer / Previous
	Swipe Right/ Left	Previous / Next Page
Screen-Saver*	Press	Stop

* The Controller becomes idle and the screensaver will activate after 5 minutes.

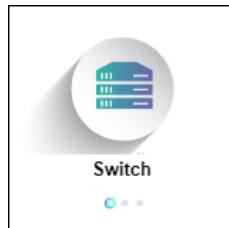
	Up Swipe	Next Layer
	Down Swipe	Previous Layer
	Right / Left Swipe	Item Check
	Press	Enter and Monitor Protection Cancel



2.3.4.2 Switch Label

Layer I

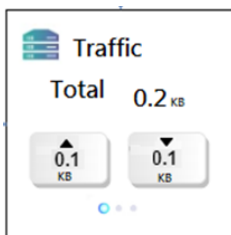
Layer 1-1 : Switch



Switch related information
group page

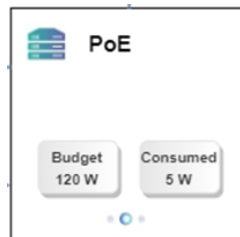
Layer II

Layer 2-1-1 Switch/Traffic



Function: Display the current Tx and Rx total traffic of 26 ports

Layer 2-1-2 Switch/PoE



Function: Display the current power information of 16 ports

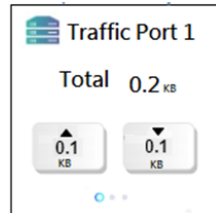
Layer 2-1-3 Switch/Version



Function: Display the current Switch version

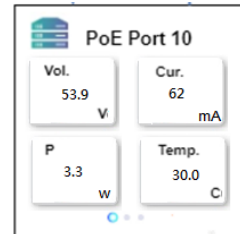
Layer III

Layer 3-1-1-1
Switch/Traffic/Port



Function: Display the current Tx and Rx traffic for each port

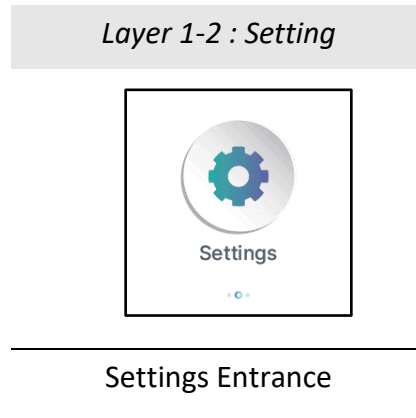
Layer 3-1-2-2
Switch/PoE/Port



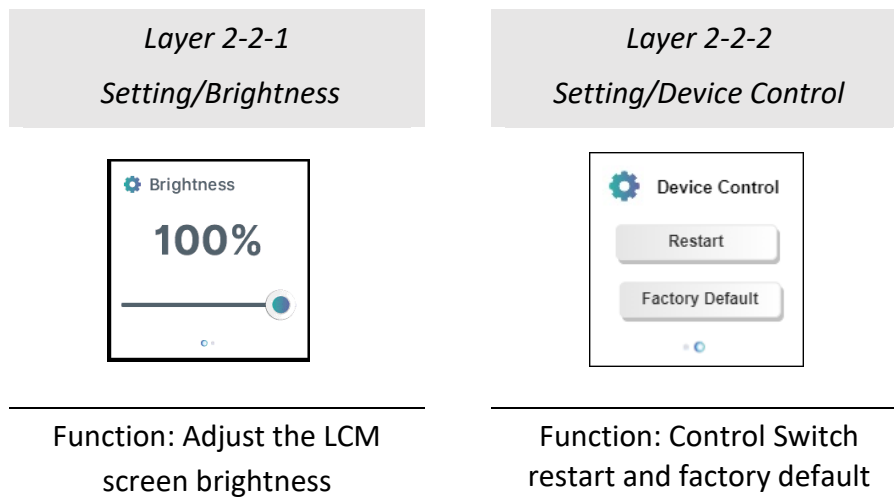
Function: Display the current voltage, current, power, and temperature for each PoE port

2.3.4.3 Setting Label

Layer I

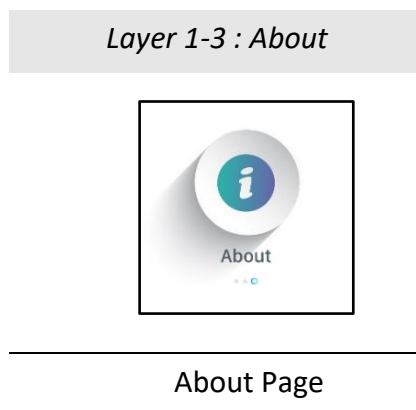


Layer II



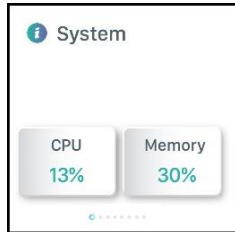
2.3.4.4 About Label

Layer I



Layer II

Layer 2-3-1 About/System



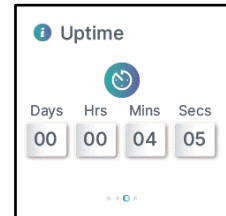
Function: Display CPU,
Memory usage

Layer 2-3-2 About/IP Address



Function: Display Switch
IP

Layer 2-3-3 About/Uptime



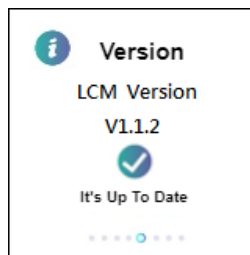
Function: Up Time

Layer 2-3-4 About/MAC



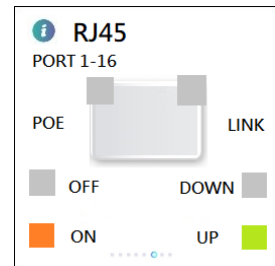
Display the device MAC
address.

Layer 2-3-5 About/LCM Version

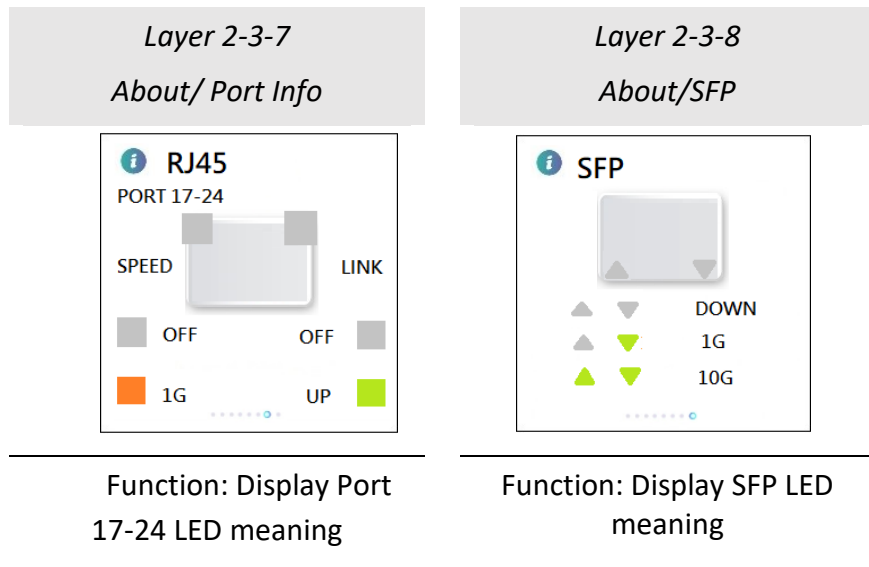


Function: Display LCM
Version

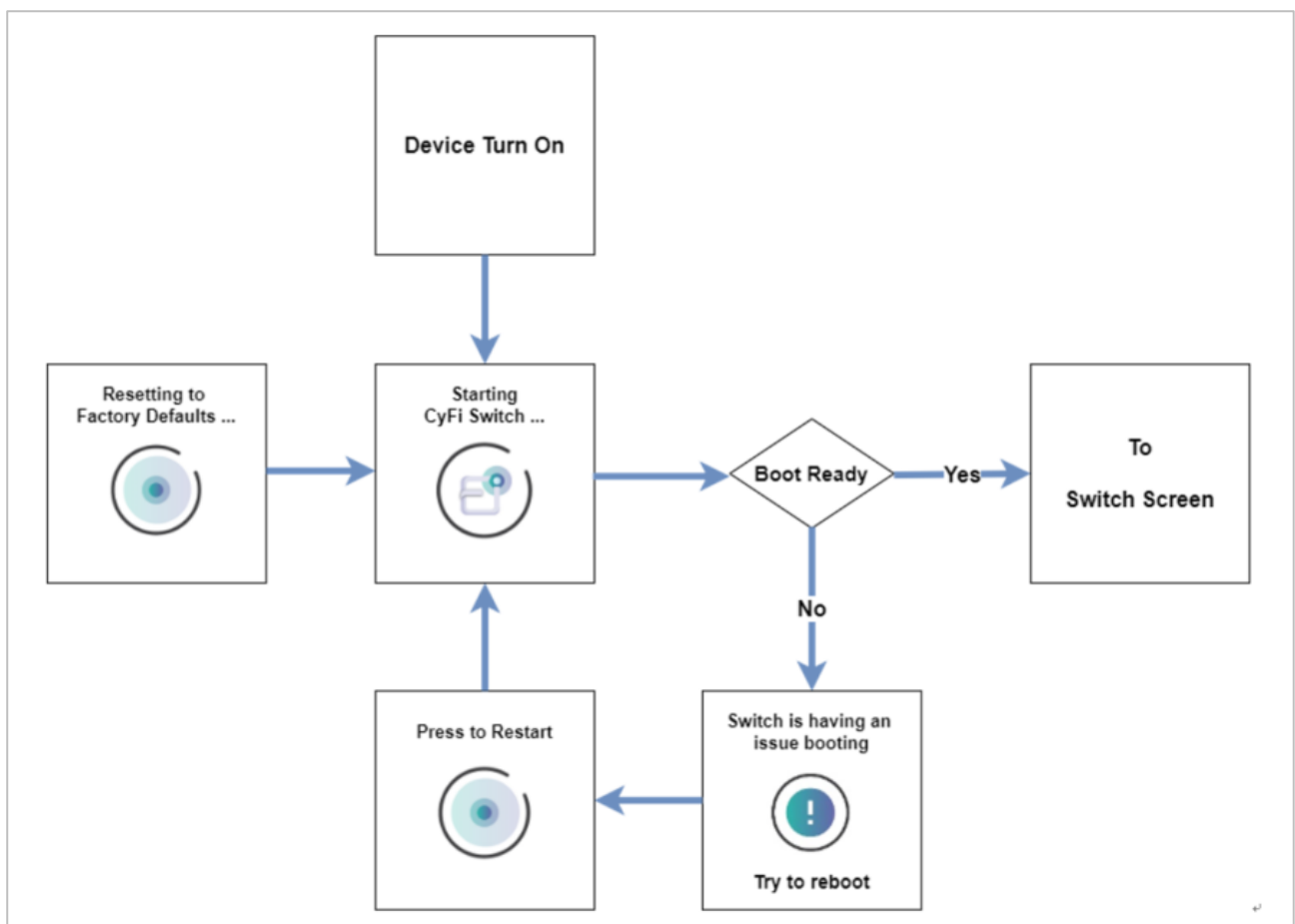
Layer 2-3-6 About/ PoE Port Info



Function: Display Port
1-16 LED meaning



2.3.4.5 Active process



2.3.5 Rack Mounting

Step 1: Attach the Switch with brackets

Please use the included screws with L brackets to attach Switch.

FIGURE: Attach the brackets



Please note:

Using other accessories and screws could damage the switch. The damages occurred by using unapproved accessories are not covered by the warranty.

Step 2: Mount the Switch in the rack

Please use the rack special screws of rack to mount the Switch in the rack. Please contact you rack vender about the screws.

FIGURE: Mount RSW226G series in the rack



Please note:

There are rubber feet in the package to install device on a desktop or shelf.

Step 3: Connect the power cord

Please connect the power cord to the Switch.

FIGURE: Connect the power cord of RSW226G series



Please note:

1. Please turn off the power source before the installation is completed.
2. The means of power cord of adapter should be connected to a socket-outlet with earthing connection.

Step 4: Connect the Ethernet cable

Please connect the Ethernet cable to the Switch. Please also connect the Controller in another side.

FIGURE: Ethernet cable connection



Please note:

1. This Switch RSW226G-1PV, RSW226G-1P & RSW226G-2PV are to be connected only to PoE networks without routing to the outside plant.

2.3.6 RSW226G Series Hardware Specification

Models	RSW226G-1PV	RSW226G-1P	RSW226G-2PV
Dimension H x W x D (mm)	44x440x230		
Performance			
Switch capacity (Gbps)	88	88	88
Forwarding capacity (Mpps)	65.47	65.47	65.47
Ports			
1GBase-T	24	24	24
1G/10G (SFP+)	2	2	2
Power over Ethernet ports	16 x 802.3at (30W/port)	16 x 802.3at (30W/port)	24 x 802.3at (30W/port)
LCD			
LCD touch panel	1.3”	–	1.3”
Power and Cooling			
Max. PoE power budget (Watt)	120	120	370
PoE Output	54VDC, 0.55A (per port 1-16)		54VDC, 0.55A (per port 1-24)
Power options	AC 100~240V, 1.74A Max.	AC 100~240V, 1.74A Max.	AC 100~240V, 4.5A Max.
Internal power supply	1 PSU included		
Airflow	Fanless	Fanless	Fans
Operating Temperature	0°C~40°C / 32°F~104°F		
Operating Humidity	10% ~ 95%, Non-condensing		

Models	RSW226G-1V	RSW226G-1
Dimension H x W x D (mm)	44x440x230	
Performance		
Switch capacity (Gbps)	88	88
Forwarding capacity (Mpps)	65.47	65.47
Ports		
1GBase-T	24	24
1G/10G (SFP+)	2	2
LCD		
LCD touch panel	1.3”	—
Power and Cooling		
Power options	AC 100~240V, 0.23A Max.	AC 100~240V, 0.23A Max.
Internal power supply	1 PSU included	
Airflow	Fanless	Fanless
Operating Temperature	0°C~40°C / 32°F~104°F	
Operating Humidity	10% ~ 95%, Non-condensing	

Please note:

1. In SFP+ ports, Laser Class 1 optical transceiver shall be used only.

2.4 Warnings and Cautionary Messages



Warning: This product does not contain any serviceable user parts.

Warning: Installation and removal of the unit must be carried out by qualified personnel only.



Caution: Wear an anti-static wrist strap or take other suitable measures to prevent electrostatic discharge when handling this equipment.

Caution: Do not plug a phone jack connector in the RJ-45 port. This may damage this device.

Caution: Use only twisted-pair cables with RJ-45 connectors that conform to FCC standards.

Caution: A proper grounding system is crucial. To ensure it meets local and national electrical codes, we recommend consulting a qualified installer who can handle the grounding process.

Caution: Secure mounting extends your device's life and prevents hazards. Follow the provided instructions carefully. For complex installations or additional support, consider consulting a qualified installer for proper wall or ceiling attachment.

Important Disclaimer:

Improper mounting of this device can lead to damage to the equipment and potential safety hazards. **We do not install on insecure walls or ceilings.** To ensure the safety and longevity of your device, please follow the provided mounting instructions carefully. If you are unsure about the installation process or require assistance, consult a qualified installer for professional mounting services.

SonicFi will not be liable for any damages or injuries resulting from improper mounting.

2.4.1 Regulatory Notice and Statement



Federal Communication Commission Interference Statement

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 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.

This statement applies to all models. (RAP630 series, RAP7110C-341X, RCN205G-1PV, RSW226G series, RSW210G series)

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this 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.

IMPORTANT NOTE:**RAP7110C-341X FCC Radiation Exposure Statement:**

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 42cm between the radiator & your body.

FCC regulations restrict the operation of this device to indoor use only.

The operation of this device is prohibited on oil platforms, cars, trains, boats, and aircraft, except that operation of this device is permitted in large aircraft while flying above 10,000 feet in the 5.925-6.425 GHz band.

Operation of transmitters in the 5.925-7.125 GHz band is prohibited for control of or communications with unmanned aircraft systems.



The frequency and the maximum transmitted power in EU are listed below:

2402-2480MHz (BR/EDR): 8.64 dBm

2402-2480MHz (LE): 9.21 dBm

Hereby, SonicFi Inc. declares that the radio equipment type RSW226G-2PV, RSW226G-1PV, RSW226G-1P, RSW226G-1V, RSW226G-1, RSW210G-1PV, RSW210G-2PV, RSW210G-1V are in compliance with Directive 2014/53/EU.

The full text of the EU declaration of conformity is available at the following internet address:

<http://www.SonicFi-networks.com/help-center/download>

**EWV631-A1, RAP630C-311G, CAP630C-311G ,RAP630W-311G, Revised
CE Notice:**

This equipment complies with EU radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

The frequency and the maximum transmitted power in EU are listed below:

2412-2472MHz: 19.98 dBm

5180-5320MHz: 22.85 dBm

5500-5700MHz: 29.54 dBm

The device is restricted to indoor use only when operating in the 5150 to 5350 MHz and 5945 to 6425MHz frequency range.

Hereby, CyberTAN Technology Inc. declares that the radio equipment type EWW631-A1, RAP630C-311G, CAP630C-311G, is in compliance with Directive 2014/53/EU.

The full text of the EU declaration of conformity is available at the following internet address:

<http://www.SonicFi-networks.com/help-center/download>

RAP7110C-341X Revised CE Notice:

This equipment complies with EU radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20 cm between the radiator & your body.

The frequency and the maximum transmitted power in EU are listed below:

2412-2472MHz: 19.87 dBm

5180-5320MHz: 22.97 dBm

5500-5700MHz: 29.73 dBm

5945-6425Mhz : 22.99 dBm

The device is restricted to indoor use only when operating in the 5150 to 5350 MHz and 5945 to 6425MHz frequency range.

Hereby, CyberTAN Technology Inc. declares that the radio equipment type RAP7110C-341X is in compliance with Directive 2014/53/EU.

The full text of the EU declaration of conformity is available at the following internet address:

<http://www.SonicFi-networks.com/help-center/download>

IC

EW631-A1, RAP630C-311G, CAP630C-311G, RAP630W-311G Revised IC Notice:

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

- (1) This device may not cause interference.
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

Cet appareil contient des émetteurs / récepteurs exempts de licence qui sont conformes au (x) RSS (s) exemptés de licence d'Innovation, Sciences et Développement économique Canada. L'opération est soumise aux deux conditions suivantes:

- (1) Cet appareil ne doit pas provoquer d'interférences.*
- (2) Cet appareil doit accepter toute interférence, y compris les interférences susceptibles de provoquer un fonctionnement indésirable de l'appareil.*

The device for operation in the band 5150–5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems.

les dispositifs fonctionnant dans la bande 5150-5250 MHz sont réservés uniquement pour une utilisation à l'intérieur afin de réduire les risques de brouillage préjudiciable aux systèmes de satellites mobiles utilisant les mêmes canaux.

For indoor use only.

Pour une utilisation en intérieur uniquement.

IMPORTANT NOTE:

IC Radiation Exposure Statement:

This equipment complies with IC RSS-102 radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 25cm between the radiator & your body.

Cet équipement est conforme aux limites d'exposition aux rayonnements IC établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de 25 cm de distance entre la source de rayonnement et votre corps.

2.5 RAP630W-311G/211G Quick Setup Guide

RAP630W-311G / 211G is a dual band Wi-Fi 6 2x2 Wall Mount Indoor Access Point with 4 gigabit interfaces with 1 gigabit interface supporting 802.3at/af POE in and 1 gigabit interface supporting 802.3f POE out to other POE device, providing in-room wired and wireless connectivity for hotel rooms, multi-tenant dwellings, school classrooms and dormitories.

This part provides step-by-step instructions on how to install and begin using your RAP630W-311G/211G

2.5.1 RAP630W-311G/211G Hardware Specification

Model	RAP630W-311G/211G
Dimension H x W x D (mm)	178x90x25(mm)
Ports	
1GBase-T PoE+ LAN Ports	3
1GBase-T WAN Port	1
Power over Ethernet ports	PoE-in 1 x 802.3at (30W/port) PoE-out 1 x 802.3af (15W/port) (One of the ports supports PoE output. The PoE output function requires 802.3at PoE+ input)
Wireless specification	
Antennas	RAP630W-311G Two dual-band antennas 2.4 GHz 2 x 3.3dBi 5GHz 2 x 4 dBi RAP630W-211G Two dual-band and one single band antennas 2.4 GHz 2 x 3.1.0dBi 5GHz 2 x 4.8 dBi
Maximum number of wireless device connections	256
Wireless networking standards	IEEE 802.11ax/ac/n/g/b/a
Wireless network frequencies	2.4GHz / 5GHz
Signal rates	2.4 GHz: 574 Mbps 5 GHz : 2402 Mbps
Power supply	
Max. PoE power budget (Watt)	30
Rated Voltage	54V DC
Rated Current	0.55 A
Operating Temperature	0°C~40°C / 32°F~104°F
Operating Humidity	10% ~ 95% , Non-condensing

2.5.2 Overview

Upon following the steps outlined in this guide, you will be able to access the RAP630W-311G / 211G Access Point Wall Switch, allowing you to offer wired and wireless network access to users. Subsequently, this document will refer to the RAP630W-311G / 211G Access Point Wall Switch as the RAP630W-311G / 211G.



FIGURE 1: RAP630W-311G / 211G Access Point: Top View and Back View.

2.5.3 About Peripheral Devices

The RAP630W-311G / 211G can provide power to PoE-powered devices, with the supplied power contingent on the PoE power delivered to the RAP630W-311G / 211G. The LAN + PoE Out port is designated for PoE-powered peripheral devices, such as IP Phone and IP camera.

TABLE 1: RAP630W-311G / 211G AP Ports

No.	Label	Description
1.	1G ETH PoE	1 x 10/100/1000 Mbps RJ-45 Ethernet port (supports 802.3af/at PoE in)
2.	1G ETH PoE	1 x 10/100/1000 Mbps RJ-45 Ethernet port (supports 802.3af PoE out)
3.	1G ETH	2 x 10/100/1000 Mbps RJ-45 Ethernet port
4.	Reset Switch	Resets the AP

2.5.4 Package Contents

A complete RAP630W-311G / 211G installation package includes all of the following items:

- RAP630W-311G / 211G Access Point.
- One mounting kit, including Two 1-inch No. 8 steel pan-headPhillips sheet metal screws, two anti-theft screws, two coupling nuts and wall-mount anchors.
- One wall plate bracket.
- Service Level Agreement/Limited Warranty Statement (Optional).
- Declaration of Conformity (Optional).
- Regulatory Statement (Optional).
- This Quick Setup Guide (Electrical). Required Hardware Tools
- A Controller (Confirm that "Controller" has completed the first registration).
- Cat 5e (or better) Ethernet cable.
- Customer-supplied IEEE 802.3af/at-compliant PoE Switch and customer-supplied Ethernet cable.
- Customer-supplied IEEE 802.3af/at-compliant PoE injector and customer-supplied Ethernet cable.
- No. 2 Phillips screwdriver and T10 Torx driver for the mounting bracket screws.
- (Optional) One or two separate bypass cables run through the outlet box.

2.5.5 Required Hardware Tools

- A Controller (Confirm that "Controller" has completed the first registration).
- Cat 5e (or better) Ethernet cable.
- Customer-supplied IEEE 802.3af/at-compliant PoE Switch and customer-supplied Ethernet cable.
- Customer-supplied IEEE 802.3af/at-compliant PoE injector and customer-supplied Ethernet cable.
- No. 2 Phillips screwdriver and T10 Torx driver for the mounting bracket screws.
- (Optional) One or two separate bypass cables run through the outlet box.

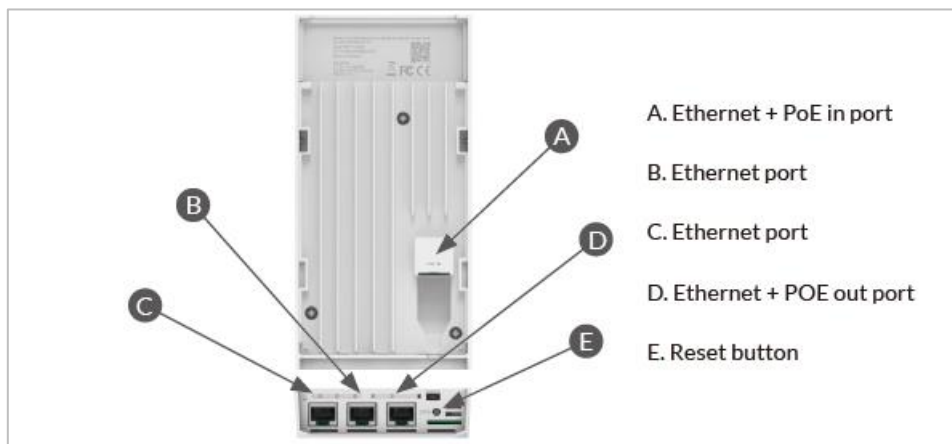
2.5.6 Installation Steps

> Step 1:

Connecting Your Controller to the AP

1. Using an Ethernet cable to connect one of your Controller LAN port to the PoE port of the AP. Refer to Figure2.

FIGURE 2: RAP630W-311G / 211G AP Ports on Bottom Panel.



2. Verify that the PWR LED (front side) on the AP is lit a steady blue.

> Step 2:

Login Controller website for setting

1. Using an Ethernet cable to connect your computer network port to one of the LAN ports on the Controller.
2. Open a browser (we recommend Chrome) on the computer to visit <https://192.168.1.1>. You will be directed to the Controller login page.
3. Access the login page, input your registered account password, and then click "Sign in" to access the Controller dashboard.

> Step 3:**Checking and find your EAP**

 Please note:

The Controller must be directly connected to the EAP through one of the Ethernet ports.

1. Navigate to the "Topology" section in the left menu. The EAP you intend to adopt will be shown in the "Pending Adoption" block at the bottom of the page.
2. Click "Connected Devices/EAP" on the left Menu.
3. The EAP will appears in the EAP list with the status as "Pending" .
4. Navigate to the "Topology" section located in the left menu.
5. Locate the EAP icon and its corresponding MAC address in the pending adoption block. Once confirmed, proceed by clicking on the appropriate icon. The onboarding process will start.
6. During the adoption process, the status will indicate "Onboarding...". Once the process is successfully completed, the new EAP will seamlessly integrate into the current "topology" and its machine LED will display a blue light.

> Step 4:**Placing the AP in Your Site**

1. Position the AP in its designated location, ensuring it is accessible for network connections. For detailed installation, please consult the "Mounting Instructions" below.
2. Connect the Cat5 cable to the PoE in port of the AP, and to a convenient power source (e.g., Controller LAN port, PoE Ethernet Switch or PoE Ethernet injector).

 Please note:

To establish the connection between the AP and the convenient power source, it is essential to utilize a Cat 5e (or better) Ethernet cable.

3. Verify that the Uplink port LED is lit. After a short pause to re-establish the connection, you can test the AP.

> Step 5:**Verifying the Installation**

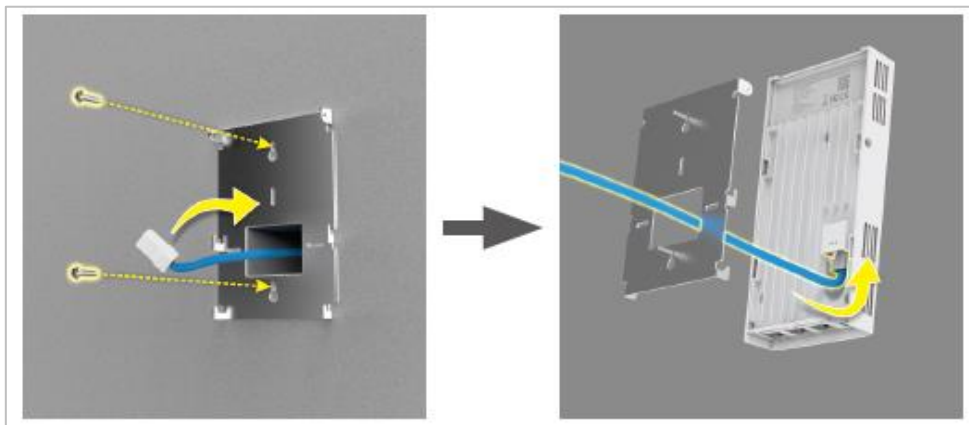
1. Using any wireless-enabled computer or mobile device to search for default SSID cyfi_25g and connect to it.
2. Once connected, open a web browser and access any public website.

Congratulations! Your wireless network is now active and operational.

> Step 6: Mounting Instructions**Over-the Socket wall mount installation**

1. Align the mounting bracket with the screw holes on the wall outlet box, and insert screws through both the bracket and the screw holes.
2. Make sure that the mounting bracket is securely fastened on the wall.

FIGURE 3>4: Attaching the mounting bracket to a single-gang wall outlet box and plug in the Ethernet cable coming out of the wall to the RJ45.



> Step 7:**Attaching the RAP630W-311G / 211G to the Mounting Bracket**

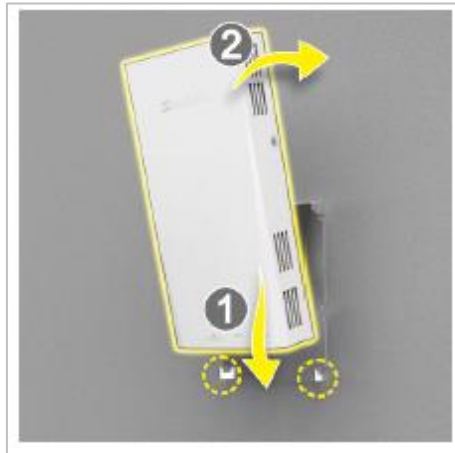
1. Make sure that the mounting bracket is securely fastened as described in Step 6.
2. If you have bypass cables (usually one or two, if any), make sure that they are draped across one or both of the two upper hooks on the mounting bracket.

FIGURE 5: Make sure the mounting bracket is securely.



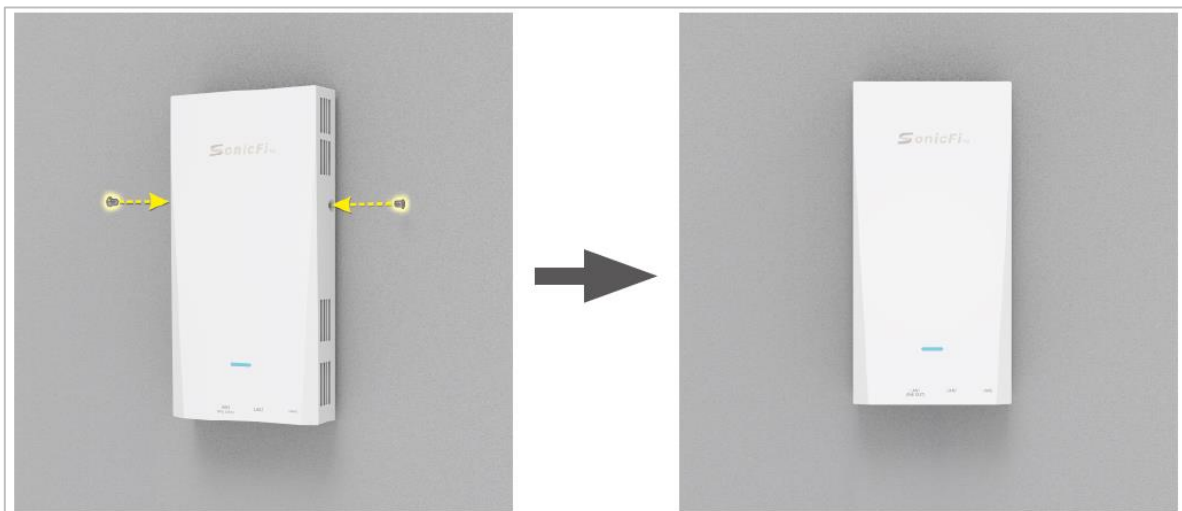
3. Pull the uplink Ethernet cable from the outlet box, and insert it into the Ethernet port in the back panel of the RAP630W-311G / 211G.
4. The mounting bracket has two lower hooks that fit into slots on the bottom of the RAP630W-311G / 211G. Rest the bottom of the RAP630W-311G / 211G on the lower hooks, and tilt the RAP630W-311G / 211G until it is up against the mounting bracket.
5. Align the screw holes on the left and right sides of the RAP630W-311G / 211G with the corresponding screw holes on both sides of the bracket.

FIGURE 6: Fit into slots on the bottom of the RAP630W-311G / 211G.



6. Use a T10 Torx driver to screw the factory-supplied Torx flat head machine screws through the RAP630W-311G / 211G screw holes into the threaded inserts on the sides of the mounting bracket.
7. Confirm whether it can start normally.

FIGURE 7>8: RAP630W-311G / 211G setup is complete by using screws inserted into the threaded inserts on the sides.



>Step 8:

Testing the RAP630W-311G / 211G Operation

After a short pause to re-establish the Internet connection, you can test the RAP630W-311G / 211G.

1. Using any wireless-enabled PC or mobile device, search for and select the wireless network you previously configured.
2. If you can connect, open a browser and navigate to any public website.
3. Using any wired PC or other device and an Ethernet cable, plug into an Ethernet port on the bottom of the RAP630W-311G / 211G.
4. Open a browser and navigate to any public website.
5. Repeat Step 3 and Step 4 in this procedure for the other Ethernet ports on the bottom of the RAP630W-311G / 211G.
6. Verify that all connected devices are working correctly.

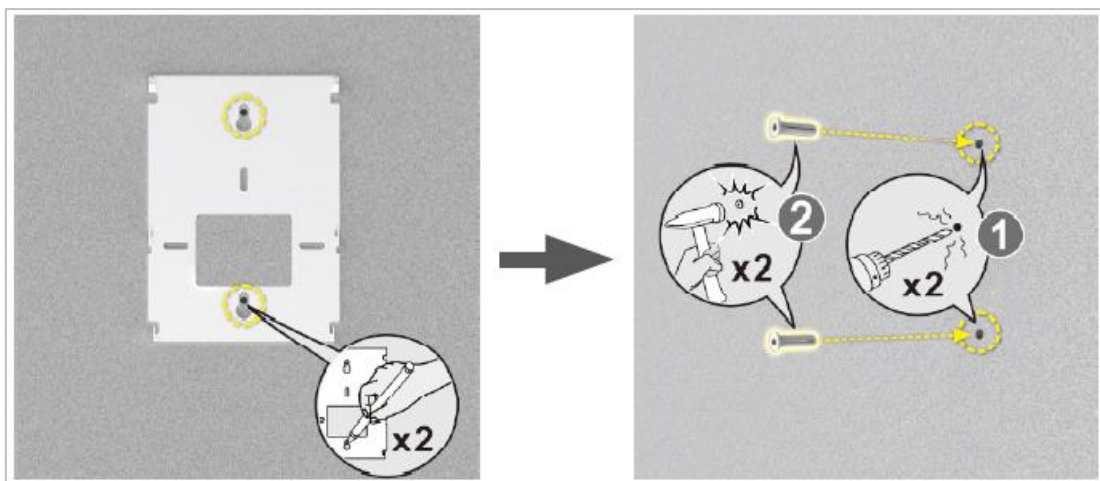
Congratulations! Your RAP630W-311G / 211G is active and ready for use.

>Step 9: Mounting Instructions

Generic wall mount installation

1. Attach the RAP630W-311G / 211G mounting bracket to a wall.
2. Mark the positions of the two screw holes.
3. After removing the mounting bracket, proceed with drilling.
4. Retrieve two coupling nuts from the kit and use a hammer to secure them into the wall, creating screw holes.

FIGURE 9>10: Mark the positions of the two screw holes and make the screw holes.



5. Align the mounting bracket with screw holes, inserting screws through the holes in the bracket and the newly drilled screw holes.
6. Make sure that the mounting bracket is securely fastened on the wall.
7. Take the uplink Ethernet cable and insert it into the WAN port in the bottom of the RAP630W-311G / 211G.

FIGURE 11>12: Mounting bracket to a wall and insert into the WAN port in the bottom side.

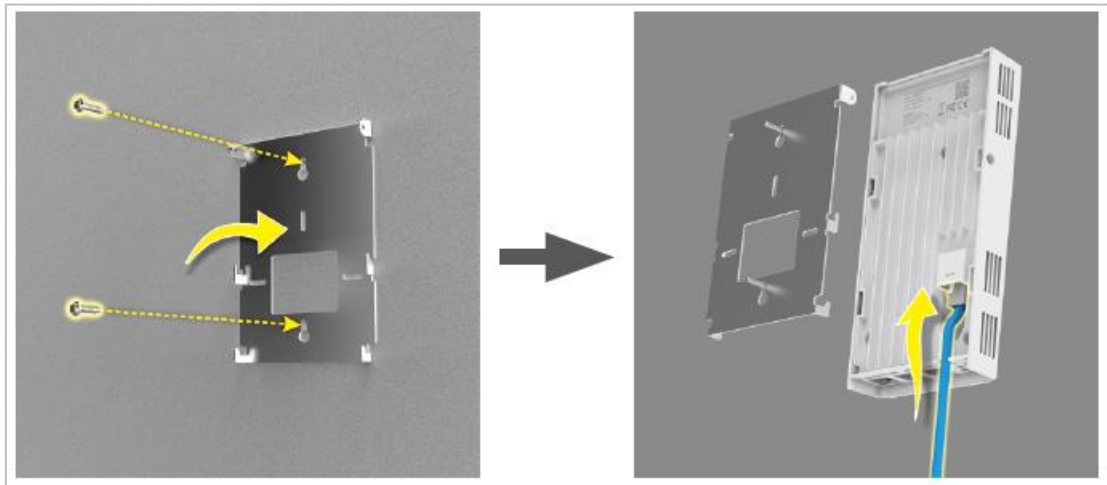
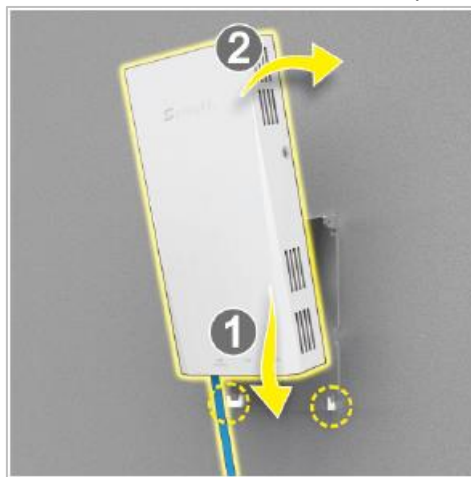


FIGURE 13: Fit into slots on the bottom of the RAP630W-311G / 211G.



8. The mounting bracket has two lower hooks that fit into slots on the bottom of the RAP630W-311G / 211G. Rest the bottom of the RAP630W-311G / 211G on the lower hooks, and tilt the RAP630W-311G / 211G until it is up against the mounting bracket.
9. Align the screw holes on the left and right sides of the RAP630W-311G / 211G with the corresponding screw holes on both sides of the bracket.
10. Use a T10 Torx driver to screw the factory-supplied Torx flat head machine screws through the RAP630W-311G / 211G screw holes into the threaded inserts on the sides of the mounting bracket.
11. Confirm whether it can start normally.

FIGURE 14: Using the screw into the threaded inserts on the sides.



>Step 10:

Testing the RAP630W-311G / 211G Operation

After a short pause to re-establish the Internet connection, you can test the RAP630W-311G / 211G.

1. Using any wireless-enabled PC or mobile device, search for and select the wireless network you previously configured.
2. If you can connect, open a browser and navigate to any public website.
3. Using any wired PC or other device and an Ethernet cable, plug into an Ethernet port on the bottom of the RAP630W-311G / 211G.
4. Open a browser and navigate to any public website.
5. Repeat Step 3 and Step 4 in this procedure for the other Ethernet ports on the bottom of the RAP630W-311G / 211G.
6. Verify that all connected PoE-powered devices are working correctly.

Congratulations! Your RAP630W-311G / 211G is active and ready for use.

FIGURE 15: RAP630W-311G / 211G set up image.



2.6 RAP630C-311G Quick Setup Guide

RAP630C-311G is a dual band Wi-Fi 6 2x2 Ceiling Mount Indoor Access Point with 1 gigabit interface supporting 802.3at/af POE in, providing in-room wired and wireless connectivity for hotel rooms, multi-tenant dwellings, school classrooms and dormitories

This part provides step-by-step instructions on how to install and begin using your RAP630C-311G

2.6.1 RAP630C-311G Hardware Specification

Model	RAP630C-311G
Dimension H x W x D (mm)	154x154x21(mm)
Ports	
1GBase-T PoE+ LAN Ports	1
Power over Ethernet ports	PoE-in 1 x 802.3at (30W/port)
Wireless specification	
Antennas	Two dual-band antennas 2.4 GHz 2 x 3.9 dBi 5GHz 2 x 4.7 dBi
Maximum number of wireless device connections	256
Wireless networking standards	IEEE 802.11ax/ac/n/g/b/a
Wireless network frequencies	2.4GHz / 5GHz
Signal rates	2.4 GHz: 574 Mbps 5 GHz : 2402 Mbps
Power supply	
Max. PoE power budget (Watt)	30
Rated Voltage	54V DC
Rated Current	0.55 A
Operating Temperature	0°C~40°C / 32°F~104°F
Operating Humidity	10% ~ 95% , Non-condensing

2.6.2 Overview

Upon following the steps outlined in this guide, you will be able to access the RAP630C-311G Access Point, allowing you to offer wired and wireless network access to users.



FIGURE 1: RAP630C-311G Access Point: Top View and Back View.

2.6.3 Package Contents

A complete RAP630C-311G installation package includes all of the following items:

- RAP630C-311G Access Point.
- One mounting kit, including two 1-inch No. 8 steel pan-head Phillips sheet metal screws, one anti-theft screw and wall-mount anchors.
- One external plate bracket.
- Service Level Agreement/Limited Warranty Statement (Optional).
- Declaration of Conformity (Optional).
- Regulatory Statement (Optional).
- This Quick Setup Guide (Electrical).

2.6.4 Required Hardware Tools

- Controller (Confirm that "Controller" has completed the first registration).
- Cat 5e (or better) Ethernet cable.
- 802.3at-compliant Power over Ethernet (PoE) Switch or PoE injector.

•

2.6.5 Installation Steps

> Step 1:

Connecting Your Controller to the AP

- Using an Ethernet cable to connect one of your Controller LAN port to the PoE port of the AP. Refer to Figure2.

FIGURE 2: RAP630C-311G AP Ports on Bottom Panel.



TABLE 1: RAP630C-311G AP Ports

No.	Label	Description
1	1G ETH PoE	1 x 10/100/1000 Mbps PoE In Port: RJ-45 Ethernet port (supports 802.3af/at PoE)
2	Reset Switch	Resets the AP

- Verify that the PWR LED (front side) on the AP is lit a steady blue.

> Step 2:

Login Controller website for setting

- Using an Ethernet cable to connect your computer network port to one of the LAN ports on the Controller.
- Open a browser (we recommend Chrome) on the computer to visit <https://192.168.1.1>.
- You will be directed to the Controller login page.
- Access the login page, input your registered account password, and then click "Sign in" to access the Controller dashboard.

> Step 3:

Checking and find your EAP

 Please note:

The Controller must be directly connected to the EAP through one of the Ethernet ports and powered on, ready for setup.

1. Navigate to the "Topology" section in the left menu. The EAP you intend to adopt will be shown in the "Pending Adoption" block, and located at the bottom of the page.
2. Click "Connected Devices/EAP" on the left Menu.
3. The EAP is linked to the "Controller" network by establishing a connection with the device. This connection status can be viewed on the topology page.
4. Navigate to the "Topology" section located in the left menu.
5. Locate the EAP icon and its corresponding MAC address. Once confirmed, proceed by clicking on the appropriate option.
6. During the adoption process, the status will indicate "Onboarding...". Once the process is successfully completed, the new EAP will seamlessly integrate into the current "topology" and its machine LED will display a blue light.

> Step 4:

Placing the AP in Your Site

4. Position the AP in its designated location, ensuring it is accessible for network connections. For detailed installation, please consult the "**Mounting Instructions**" below.
5. Connect the Cat5 cable to the PoE in port of the AP, and to a convenient power source (e.g., Controller LAN port, PoE Ethernet Switch or PoE Ethernet injector).

 Please note:

To establish the connection between the AP and the convenient power source, it is essential to utilize a Cat 5e (or better) Ethernet cable.

6. Verify that the Uplink port LED is lit. After a short pause to re-establish the connection, you can test the AP.

> Step 5:

Verifying the Installation

3. Using any wireless-enabled computer or mobile device to search for default SSID **cyfi_25g** and connect to it.
4. Once connected, open a web browser and access any public website.

Congratulations! Your wireless network is now active and operational.

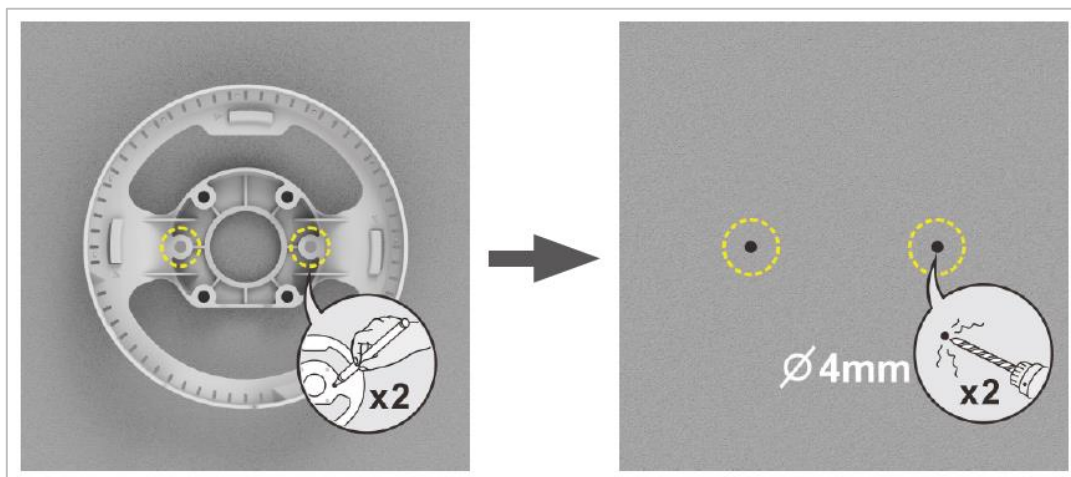
> Step 6: Mounting Instructions

Without an Ethernet outlet

This setting is in the case without Ethernet hole.

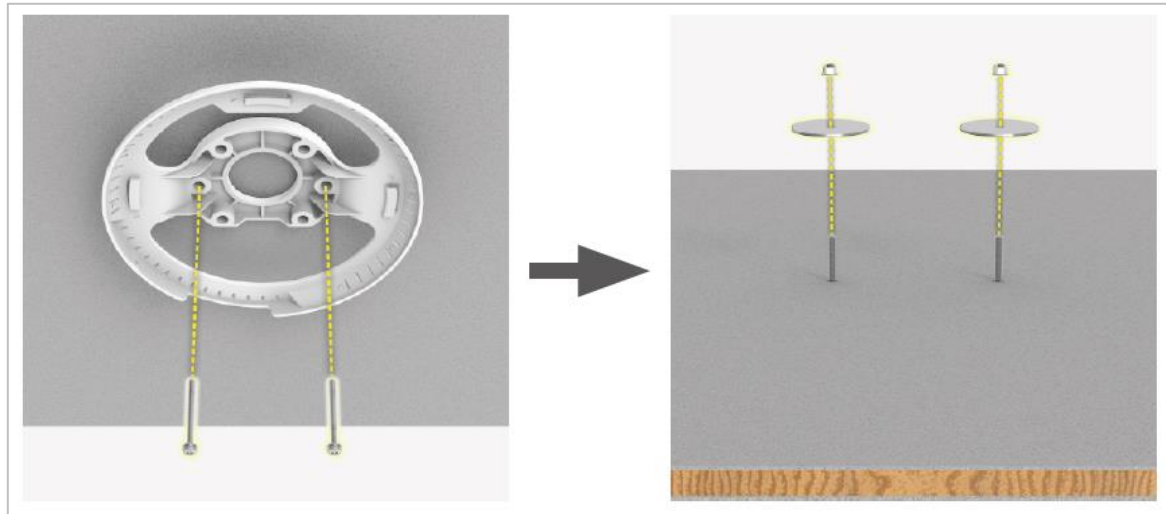
3. Attach the lower cover ceiling plate to the desired ceiling location.
4. Mark the positions of the two screw holes.

FIGURE 3>4

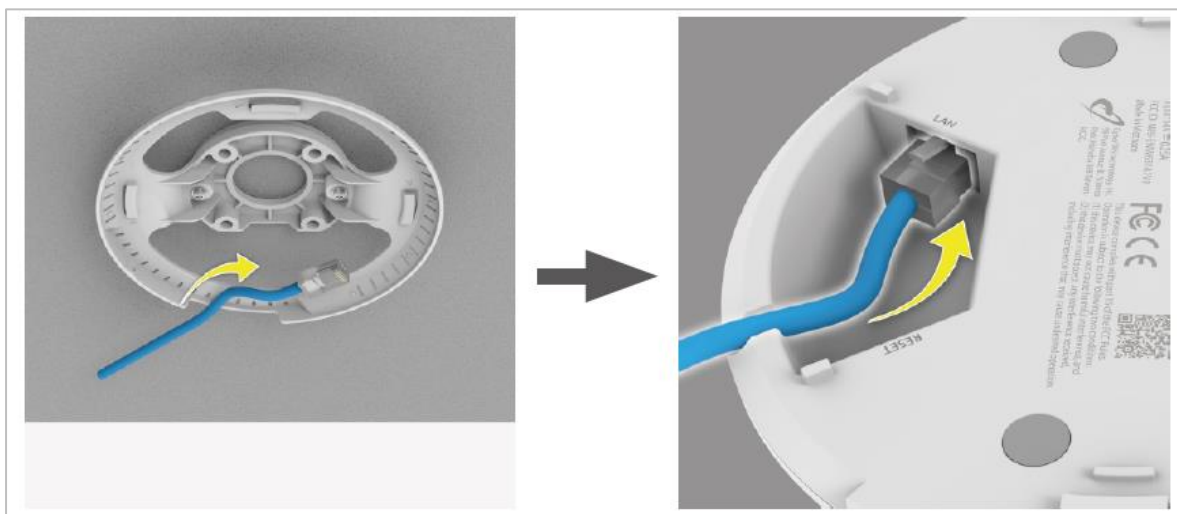


5. After removing the ceiling plate, proceed with drilling.
6. Align the two screws hole and ceiling plates, inserting screws through the holes in the plates and the newly drilled ceiling holes.
7. Place two nuts onto the screws and tighten them securely.

FIGURE 5>6

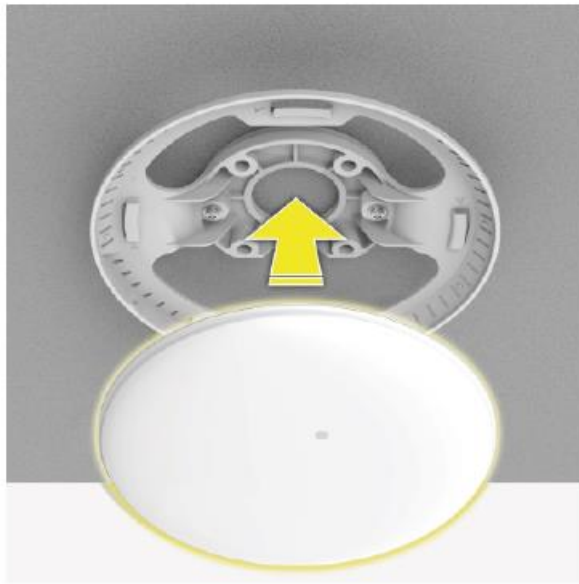


- 8.
6. Confirm the stability of the ceiling plate kit.
7. Connect the Ethernet cable with the EAP.
8. Align the EAP with the ceiling plate.



9. Rotate the EAP clockwise to secure it in place.

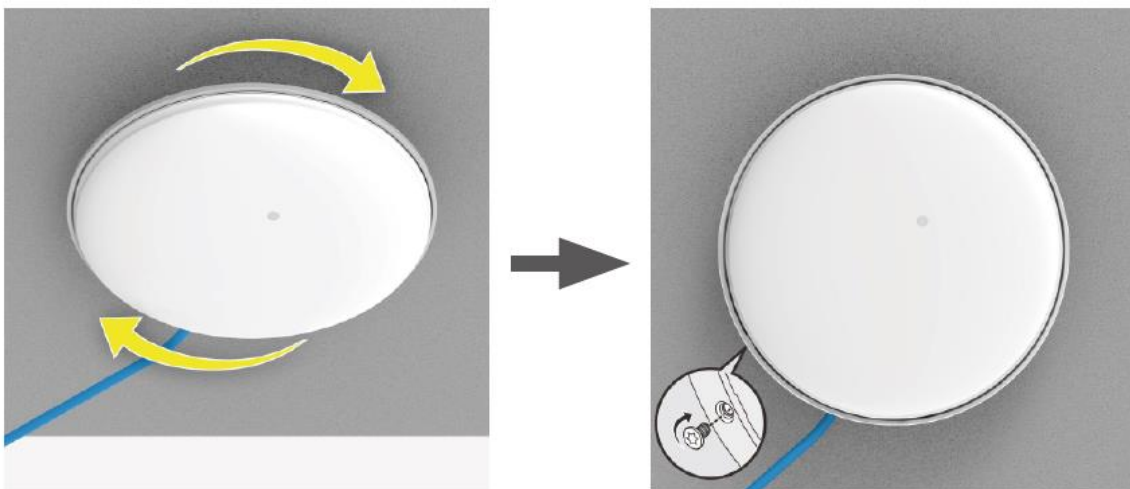
FIGURE 9:



10. Lock the anti-theft screw into the anti-theft hole to fix the AP and the lower cover ceiling plate.

11. Your EAP setup is now completed.

FIGURE 10>11:

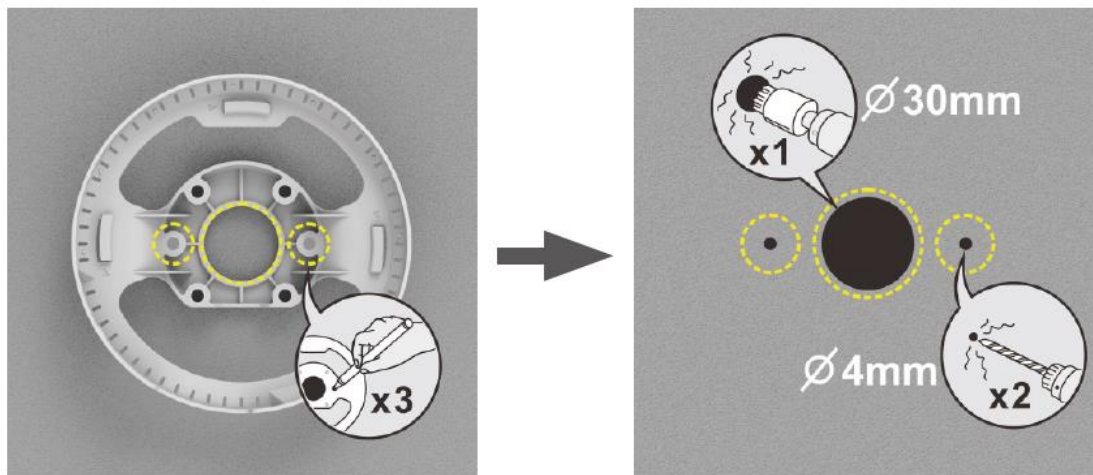


> Step 7: Mounting Instructions Using an Ethernet outlet

Make sure the ceiling you want to use has an Ethernet outlet.

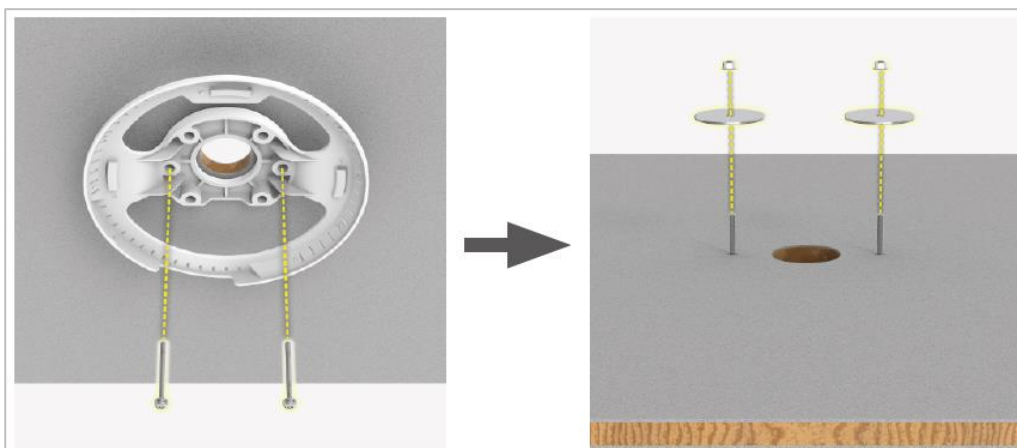
1. Attach the lower cover ceiling plate to the desired ceiling location.
2. Mark two positions for the screw holes and a position for the Ethernet cable hole.

FIGURE 12>13:



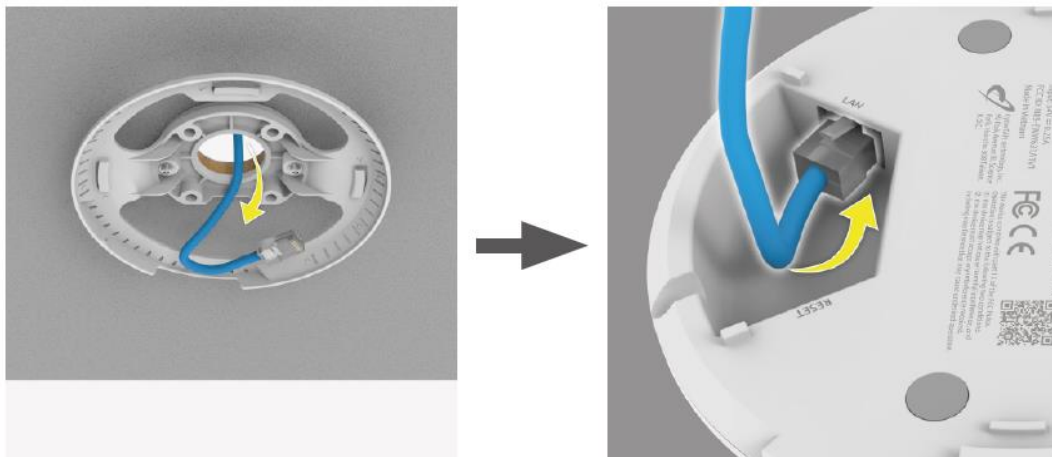
3. After removing the ceiling plate, proceed with drilling.
4. Align the two screws hole and ceiling plates, inserting screws through the holes in the plates and the newly drilled ceiling holes.
5. Place two nuts onto the screws and tighten them securely.

FIGURE 14>15:



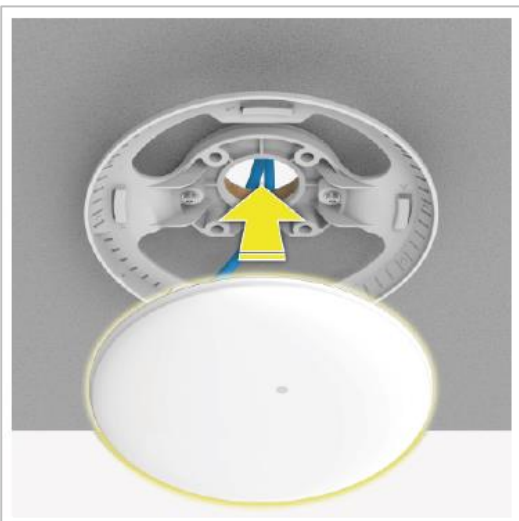
6. Confirm the stability of the ceiling plate kit.
7. Retrieve the Ethernet cable from the Ethernet hole and connect it to the EAP.
8. Align the EAP with the ceiling plate.

FIGURE 16>17:



9. Rotate the EAP clockwise to secure it in place.

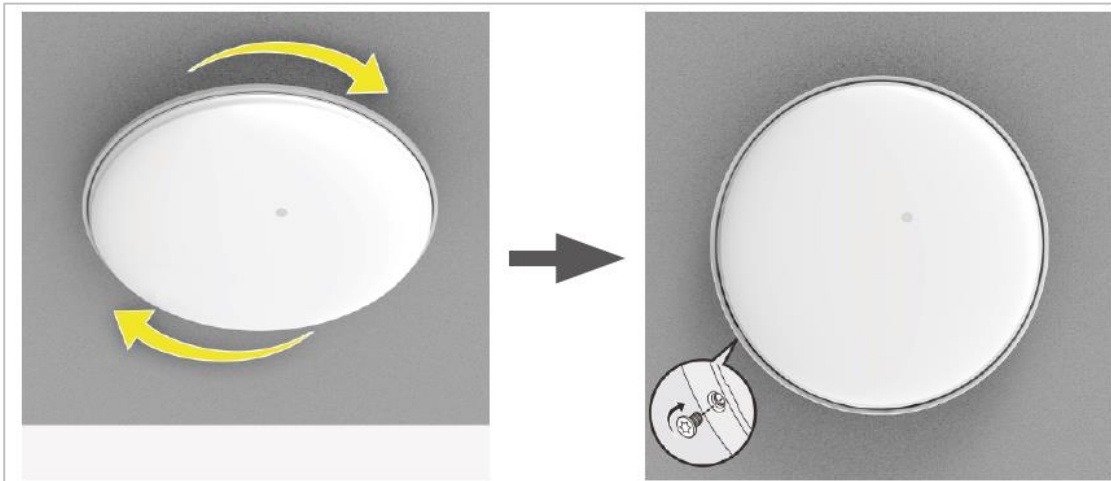
FIGURE 18:



10. Lock the anti-theft screw into the anti-theft hole to fix the AP and the lower cover ceiling plate.

11. Your EAP setup is now completed.

FIGURE 19>20:



2.7 RAP7110C-341X Quick Setup Guide

RAP7110C-341X is a tri-band Wi-Fi 7 2x2 + 2x2 + 2x2 Ceiling Mount Indoor Access Point with a 10-gigabit uplink interface supporting 802.3at/af PoE. The main target market segments for RAP7110C-341X include hotel rooms, multi-tenant dwellings, school classrooms, dormitories, and SOHO, etc.

This part provides step-by-step instructions on how to install and begin using your RAP7110C-341X

2.7.1 RAP7110C-341X Hardware Specification

Model	RAP7110C-341X
Dimension H x W x D (mm)	230.0 mm (Diameter) x 36.0 mm (Depth)
Ports	
10 GBase-T WAN Port	1
Power over Ethernet ports	PoE-in 1 x 802.3at (30W/port)
Wireless specification	
Antennas	Three dual-band antennas 2.4 GHz 2 x 2.65 dBi 5GHz 2 x 3.55 dBi 6GHz 2 x 2.65 dBi
Maximum number of wireless device connections	256
Wireless networking standards	IEEE 802.11 be/ax/ac/n/g/b/a
Wireless network frequencies	2.4GHz / 5GHz / 6GHz
Signal rates	2.4 GHz: 688 Mbps 5 GHz : 4323 Mbps 6 GHz : 5764 Mbps
Power supply	
Rated Voltage	54V DC
Rated Current	0.55 A
DC Power	External power adapter 100~240AC input, 12V 2.5A output
Operating Temperature	0°C~40°C / 32°F~104°F
Operating Humidity	10% ~ 95% , Non-condensing

2.7.2 Overview

RAP7110C-341X Access Point Quick Setup Guide

This Quick Setup Guide provides step-by-step instructions on how to install and begin using your RAP7110C-341X Tri-band 802.11BE Indoor Wi-Fi Access Point (AP).

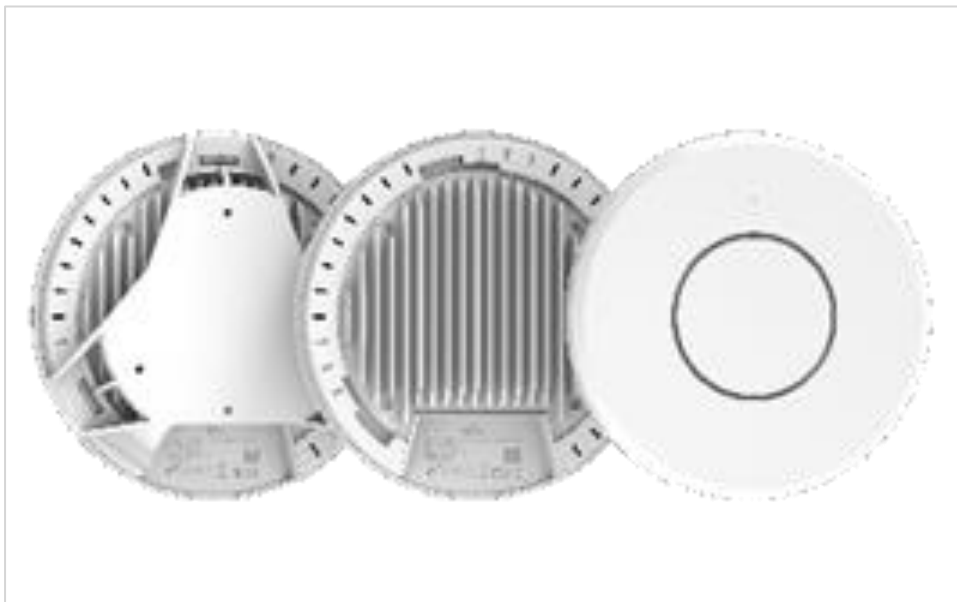


FIGURE 1: RAP7110C-341X Access Point: Top View and Back View.

2.7.3 Package Contents

A complete RAP7110C-341X installation package includes all of the following items:

- RAP7110C-341X Access Point.
- One mounting kit, including three 1-inch No. 8 steel pan-head Phillips sheet metal screws, one anti-theft screw and wall-mount anchors.

- One external plate bracket.
- Service Level Agreement/Limited Warranty Statement (Optional).
- Declaration of Conformity (Optional).
- Regulatory Statement (Optional).
- This Quick Setup Guide (Electrical).

2.7.4 Required Hardware Tools

- Controller (Confirm that "Controller" has completed the first registration).
- Cat 6 (or better) Ethernet cable.
- 802.3at-compliant Power over Ethernet (PoE) Switch or PoE injector.
- 12V 2.5A Power Adapter (Optional)

2.7.5 Installation Steps

> Step 1:

Connecting Your Controller to the AP

1. Using an Ethernet cable to connect one of your Controller LAN ports to the PoE port of the AP. Refer to Figure 2.



FIGURE 2: RAP7110C-341X AP Ports on Bottom Panel.

TABLE 1: RAP7110C-341X AP Ports

No.	Label	Description
1	Reset Switch	Resets the AP
2	10G ETH PoE	1 x 10/100/1000 / 10000 Mbps PoE In Port: RJ-45 Ethernet port (supports 802.3af/at PoE)
3	DC IN	12V 2.5A DC IN

2. Verify that the PWR LED on the AP is lit a steady blue.

> Step 2:

Login Controller website for setting

1. Using an Ethernet cable to connect your computer network port to one of the LAN ports on the Controller.
2. Open a browser (we recommend Chrome) on the computer to visit <https://192.168.1.1>.
3. You will be directed to the Controller login page.
4. Access the login page, input your registered account password, and then click "Sign in" to access the Controller dashboard.

> Step 3:

Checking and find your EAP

1. Navigate to the "Topology" section in the left menu. The EAP you intend to adopt will be shown in the "Pending Adoption" block, and located at the bottom of the page.
2. Click "Connected Devices/EAP" on the left Menu.
3. The EAP is linked to the "Controller" network by establishing a connection with the device. This connection status can be viewed on the topology page.
4. Navigate to the "Topology" section located in the left menu.
5. Locate the EAP icon and its corresponding MAC address. Once confirmed, proceed by clicking on the appropriate option.
6. During the adoption process, the status will indicate "Onboarding...".

Once the process is successfully completed, the new EAP will seamlessly integrate into the current "topology" and its machine LED will display a blue light.

> Step 4:

Placing the AP in Your Site

1. Position the AP in its designated permanent location, ensuring it is accessible for network connections. For detailed installation instructions, please consult the "Mounting Instructions" guide.
2. Connect the Cat6 cable to the POE in port of the AP, and to a convenient power source (e.g., Controller LAN port, POE Ethernet Switch or POE Ethernet injector).
3. Verify that the Uplink port LED is lit.

After a short pause to re-establish the Internet connection, you can test the AP.

> Step 5:

Verifying the Installation

1. Using any wireless-enabled computer or mobile device to search for default SSID cyfi_25g and connect to it.
2. Once connected, open a web browser and access any public website.

Congratulations! Your wireless network is now active and operational.

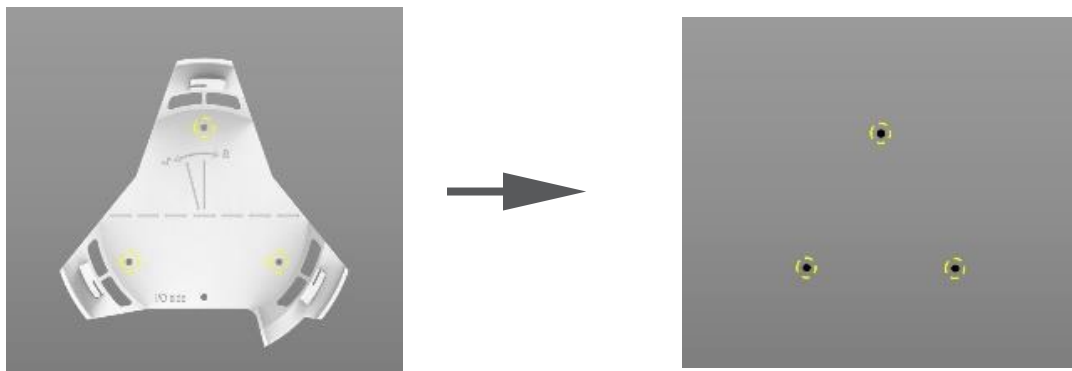
> Step 6: Mounting Instructions

Without an Ethernet outlet

This setting is in the case without Ethernet hole.

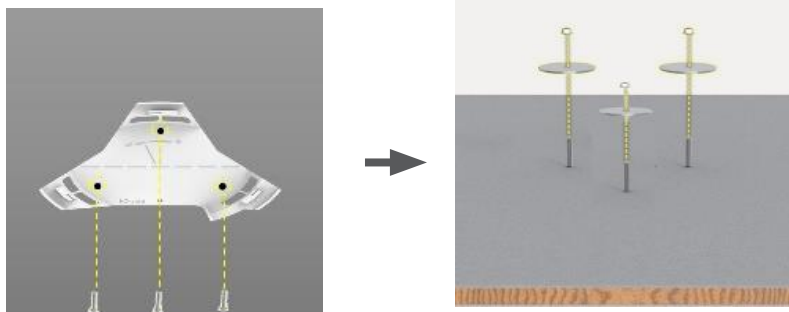
1. Attach the lower cover ceiling plate to the desired ceiling location.
2. Mark the positions of the three screw holes.

FIGURE 3>4:



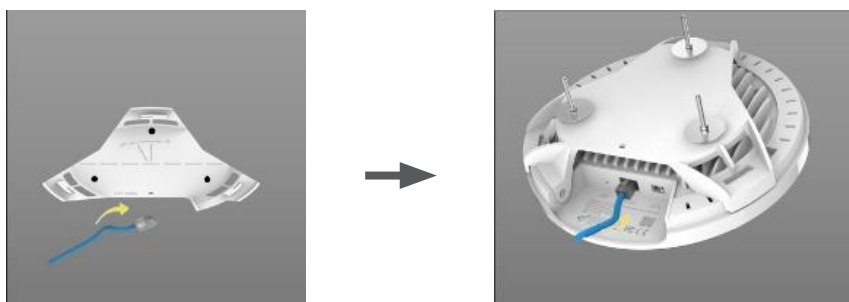
3. After removing the ceiling plate, proceed with drilling.
4. Align the three screws hole and ceiling plates, inserting screws through the holes in the plates and the newly drilled ceiling holes.
5. Place three nuts onto the screws and tighten them securely.

FIGURE 5>6:



6. Confirm the stability of the ceiling plate kit.
7. Connect the Ethernet cable with the EAP.
8. Align the EAP with the ceiling plate.

FIGURE 7>8:



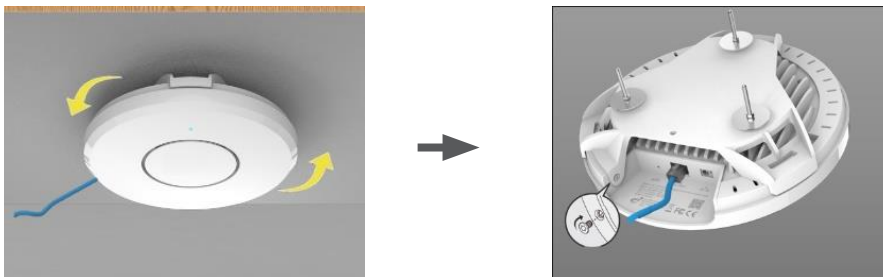
9. Rotate the EAP clockwise to secure it in place.

FIGURE 9:



10. Lock the anti-theft screw into the anti-theft hole to fix the AP and the lower cover ceiling plate.
11. Your EAP setup is now completed.

FIGURE 10>11:



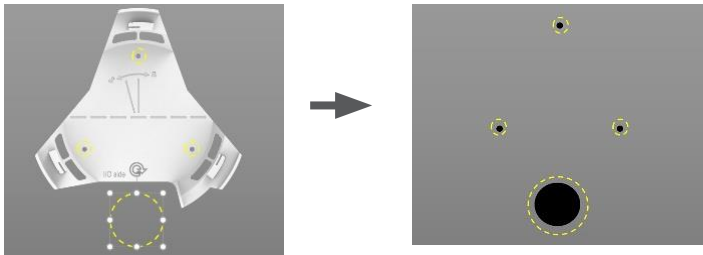
> Step 7: Mounting Instructions

Using an Ethernet outlet

Make sure the ceiling you want to use has an Ethernet outlet.

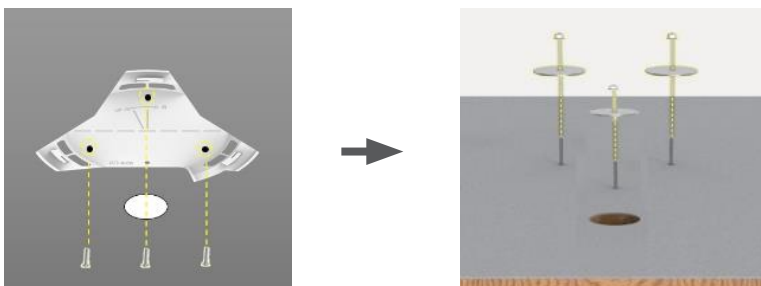
1. Attach the lower cover ceiling plate to the desired ceiling location.
2. Mark three positions for the screw holes and a position for the Ethernet cable hole.

FIGURE 12>13:



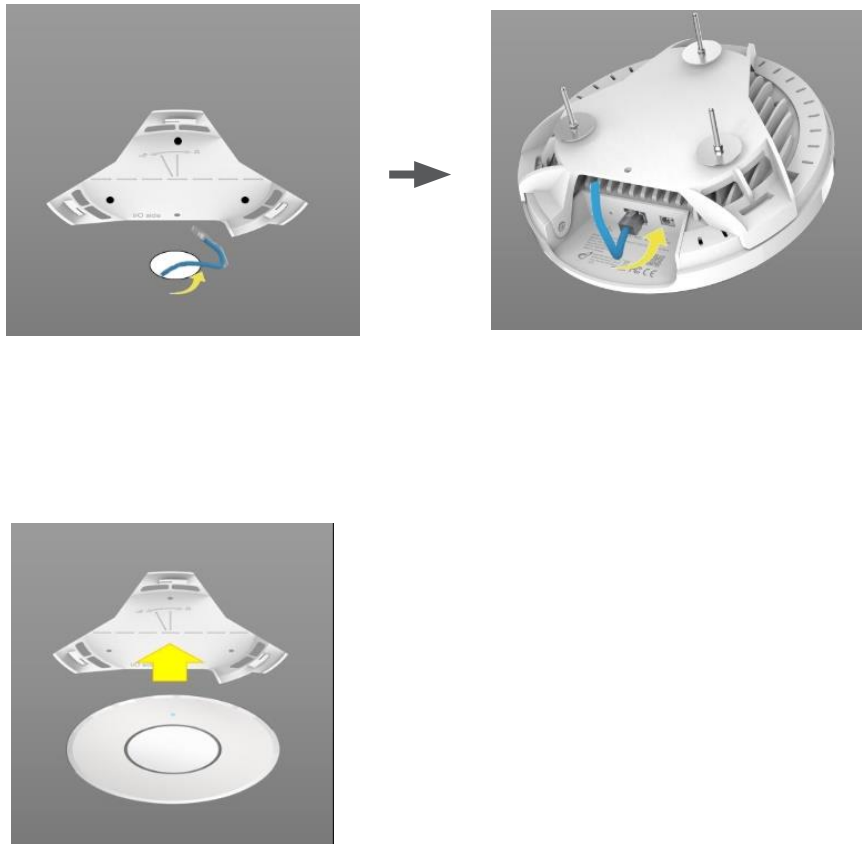
3. After removing the ceiling plate, proceed with drilling.
4. Align the three screws hole and ceiling plates, inserting screws through the holes in the plates and the newly drilled ceiling holes.
5. Place three nuts onto the screws and tighten them securely.

FIGURE 14>15:



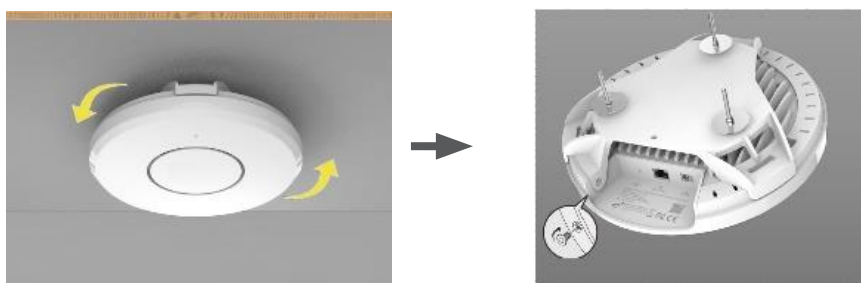
6. Confirm the stability of the ceiling plate kit.
7. Retrieve the Ethernet cable from the Ethernet hole and connect it to the EAP.
8. Align the EAP with the ceiling plate.
9. Rotate the EAP clockwise to secure it in place.

FIGURE 16>17:



10. Lock the anti-theft screw into the anti-theft hole to fix the AP and the lower cover ceiling plate.
11. Your EAP setup is now completed.

FIGURE 18



3. Login a Controller

The following are the procedures that how to login the Controller.

 Please note:

If there is no WAN connection, the account created should be a Local account. If there is a WAN connection, the account created should be a Cloud + Local account.

Step 1, Open a browser (we recommend Chrome) and visit <https://192.168.1.1> (or <https://sonicfi.wlan.local>).

Step 2, You will be directed to the Controller login page.

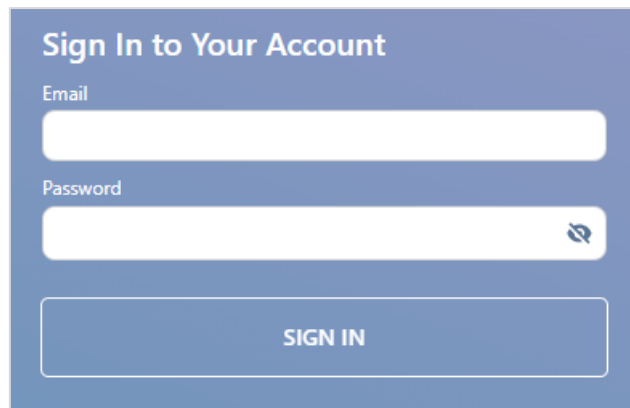
The image shows a login page with a blue header and a white body. The header contains the text "Sign In to Your Account". Below the header, there are two input fields: "Email" and "Password". The "Email" field is empty. The "Password" field is empty and has a small eye icon to its right. Below the input fields is a blue button with the text "SIGN IN".

Figure 1. SMB Controller Login Page

Step 3, To initiate the first login, you need to complete the account registration process. Use the default account / password: `admin@sonicfi.com.tw` / `Eap@12345`.

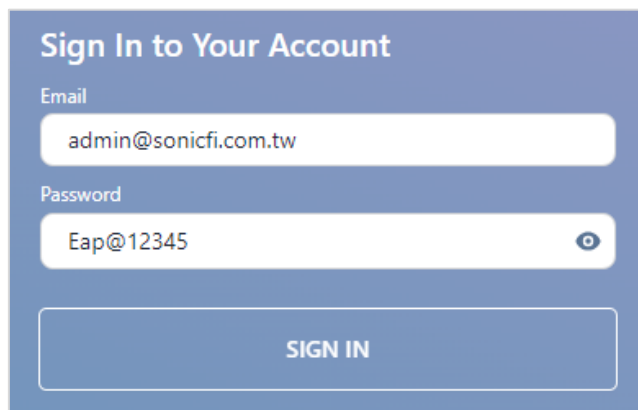
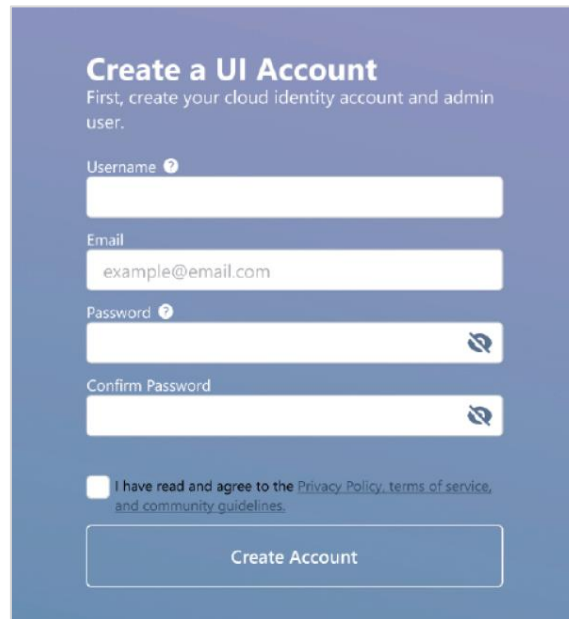
The image shows the same login page as Figure 1, but with the default credentials entered. The "Email" field now contains the text "admin@sonicfi.com.tw". The "Password" field now contains the text "Eap@12345" and has a small eye icon to its right. The "SIGN IN" button is still present at the bottom.

Figure 2. Sign in Page

Step 4, After entering default account / password, click "Sign in" to access the registration page.



Create a UI Account
First, create your cloud identity account and admin user.

Username 

Email
example@email.com

Password  

Confirm Password 

☐ I have read and agree to the [Privacy Policy](#), [terms of service](#), and [community guidelines](#).

Create Account

Figure 3. SMB Controller Registration Page

Step 5, On the registration page, you can establish your own new account and password. After entering the required information, simply click "Sign up". It will return to the Login Page.

Step 6, Access the login page, enter your registered account's password, and click "Sign in" to access the Controller dashboard.

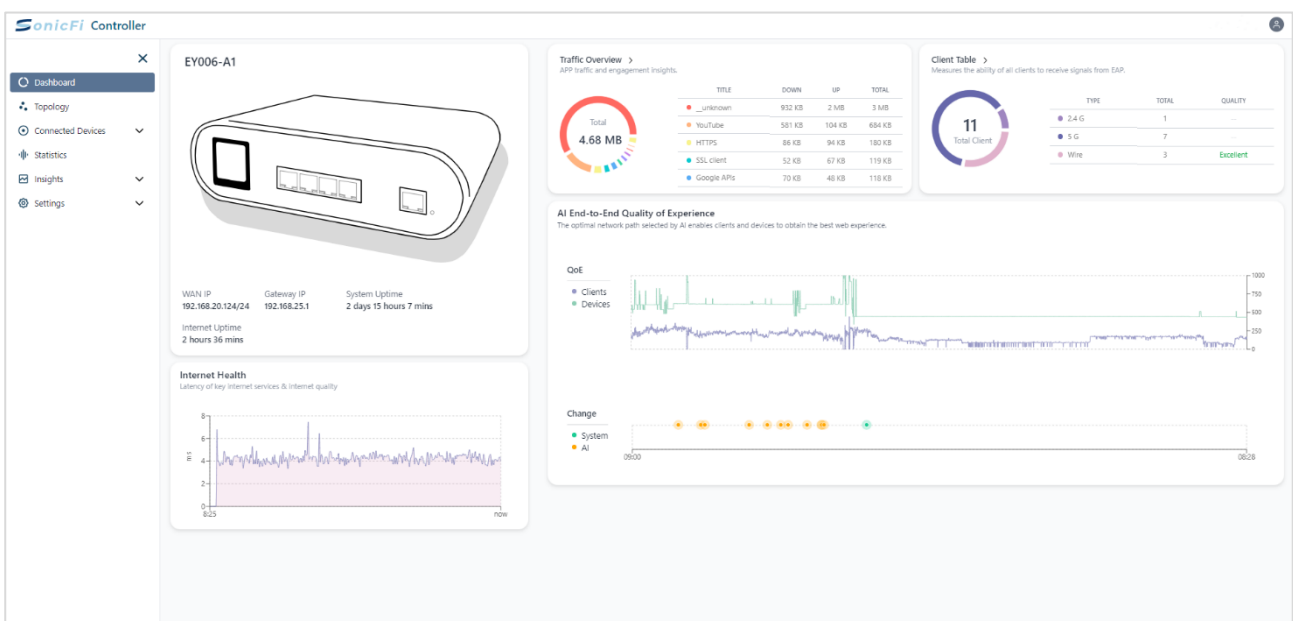


Figure 4. SMB Controller Dashboard Page

4. Onboarding the device

4.1 Enterprise access point on boarding

Once the dashboard page is visible, please follow the below procedures to install an access point. The installation procedures are shown in below.

Note: We strongly suggest user to “onboard” the device first and then put the device in the service location.

Step 1, The initial EAP must be connected to the Controller's LAN port using a network cable.

Step 2, After that, on Topology page of the Controller web GUI, you can locate “pending adoptions” in the bottom-left corner.

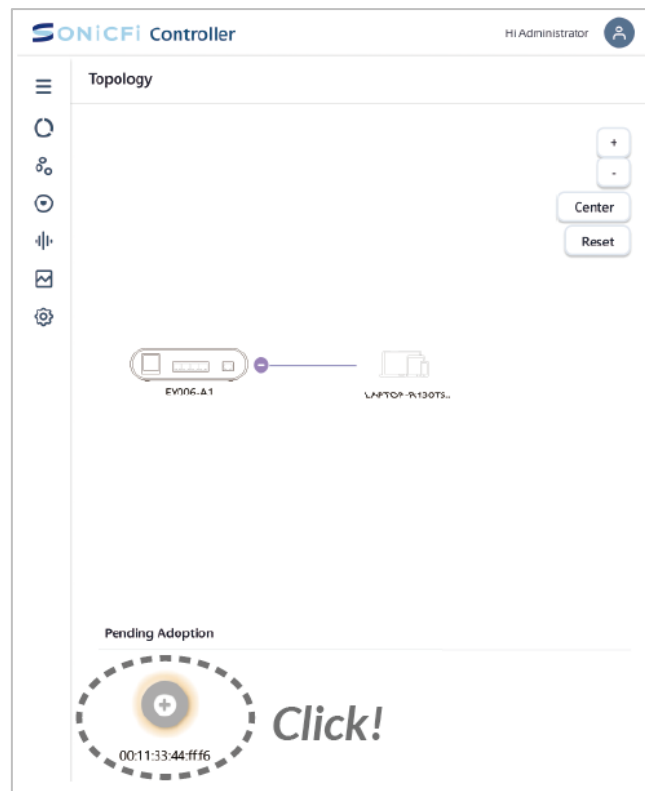


Figure 5. SMB Controller Pending Adoption of Topology Page

Step 3, To adopt the access point, simply click on it and wait for the adoption process to complete. The process may take around two minutes.

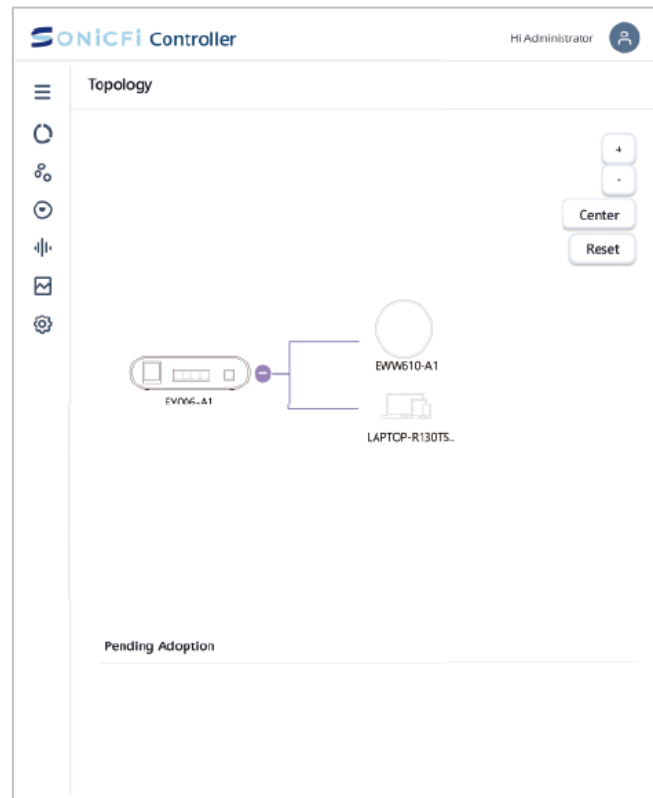


Figure 6. SMB Controller Onboarding of Topology Page

Step 4, For more information about the Controller Web GUI and the usage, please refer to this manual.

Step 5, After setting up the basic network topology, you can adopt other access points through wire or wireless.

The result can setup the first tier access point which is shown on the above topology page. When user would like to use “wireless backhaul” architecture to install the second tier access point, please follow the below procedures.

Note: We strongly suggest user to “onboard” the device first and then put the access point in the service location.

Step 1, The EAP can power on by PoE. Please find a PoE Switch or PoE injector to connect to “UPLink (PoE In)” port of EAP.