


Edge-core OAP101E Wi-Fi 6 Access Point



Edge-core OAP101E Wi-Fi 6 Access Point User Guide

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Edge-core OAP101E Wi-Fi 6 Access Point



Specifications

- Model: OAP101 | OAP101-6E
- Power Input: 48 VDC
- Uplink Port: RJ-45 2.5GBASE-T connection to 802.3at PoE
- LAN Port: 1 Gbps LAN connection
- LED Indicators: Power/Status LED with different color codes
- Reset Button: Quick press for restart, 5-second hold for factory reset

Installation

Mounting the Device

1. Mounting on a Wall:

1. Drill holes for wall plugs, insert plugs, attach mounting bracket to device using M6 screws, and slide device onto screws.

2. Mounting on a Pole:

1. Mark holes on the wall, attach bracket to device, feed steel-band clamps through pole-mount points, and fasten clamps around the pole.

Grounding the Device

Connect a ground wire to the grounding point on the device and to nearby good earth.

Connecting Cables

Connect Ethernet Cables:

1. Connect Category 5e or better cable to the Uplink (PoE In) port for power.
2. (Optional) Connect LAN switch or computers to the LAN port.

(Optional) Connect DC Power:

Ensure Power/Status LED is on yellow green for normal operation.

Initial Setup and AP Registration

Register the AP on your network by entering MAC address and serial number on ecCLOUD or connect to the web interface through an LAN port.

Frequently Asked Questions (FAQ)

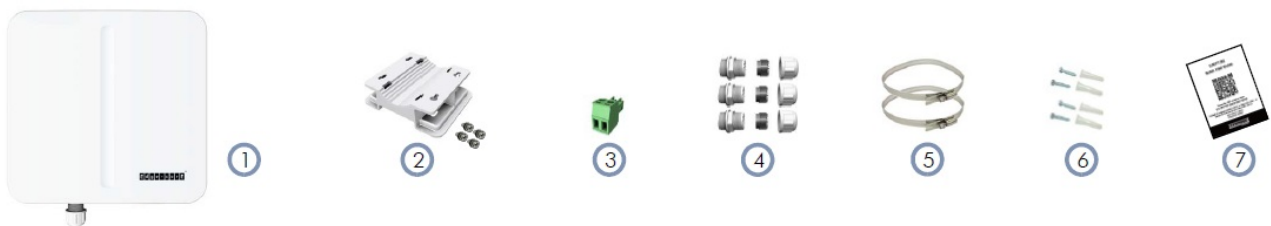
1. Q: Can I use different accessories for installation?

A: No, using unapproved accessories could result in damage not covered by warranty.

2. Q: How do I know if the device is booting up properly?

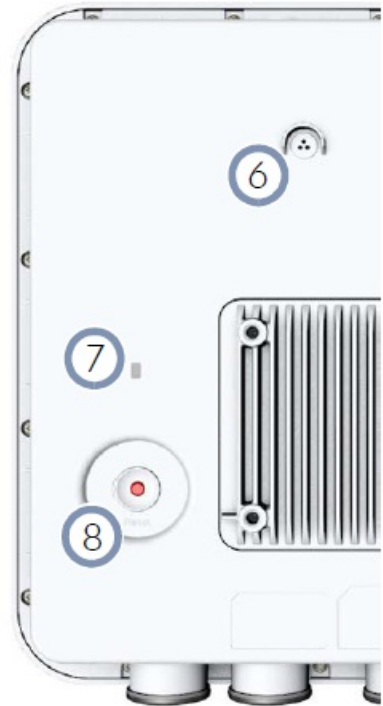
A: The Power/Status LED will blink indicating boot-up process.

Package Contents



1. OAP101 or OAP101-6E access point
2. Mounting bracket and 4 x M6 screws
3. DC terminal plug
4. 3 x Cable glands
5. 2 x Steel-band clamps for pole mount (2.5 inch diameter max.)
6. Screw kit—4 screws and 4 plugs
7. QR code card

Overview



1. Grounding point
2. DC In port: 48 VDC
3. Uplink (PoE) port: RJ-45 2.5GBASE-T connection to 802.3at PoE
4. LAN port: 1 Gbps LAN connection
5. Console port
6. Moisture protective vent
7. **Power/Status LED:**
 - Yellow green: On (power OK), Blinking (boot up)
 - Blue: On (cloud managed)
 - Purple: Blinking (uplink activity in cloud managed mode)
 - Orange: Blinking (uplink activity in stand-alone mode)
8. **Restart/Reset button:**
 - A quick press restarts the system.
 - Press and hold for 5 seconds resets to factory defaults.

Installation



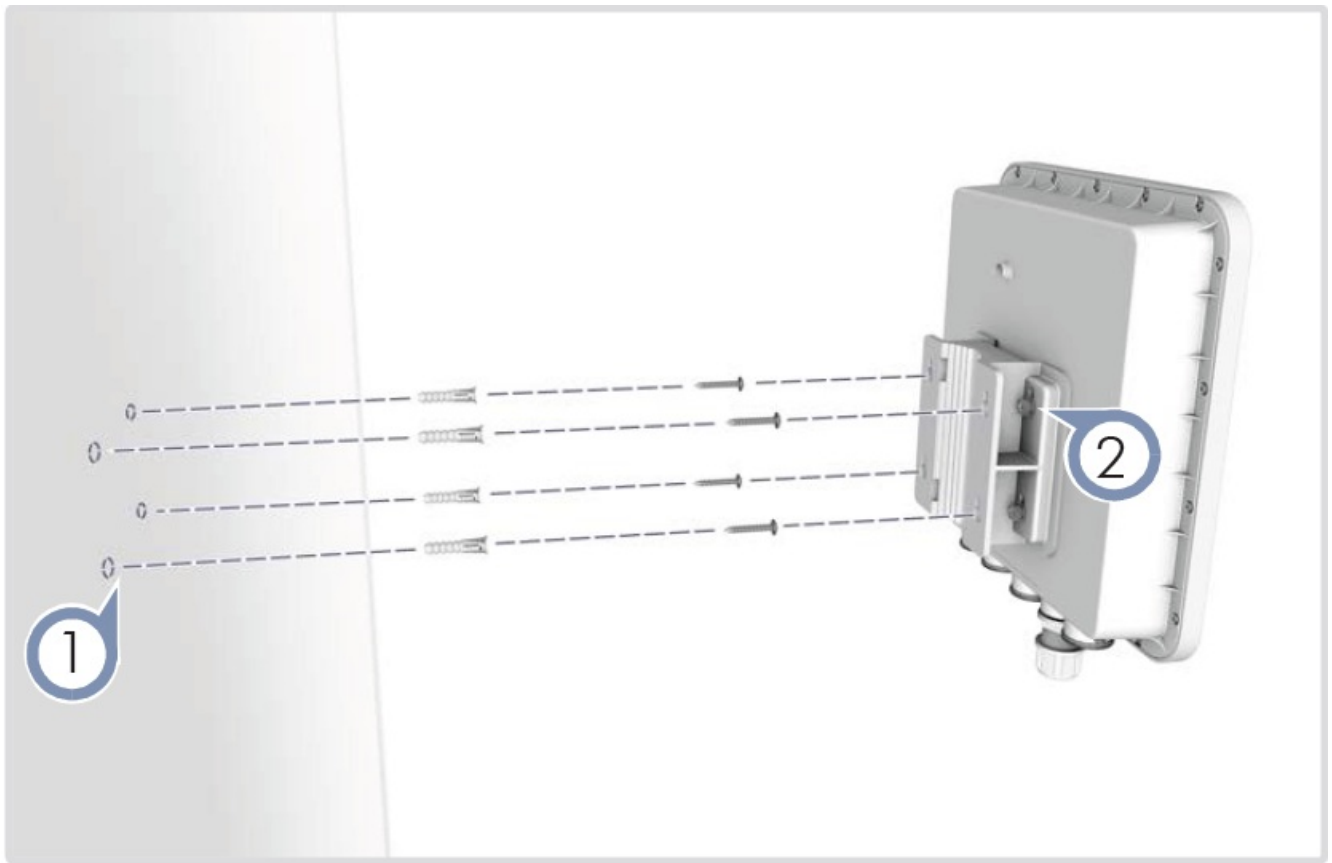
Warning: For a safe and reliable installation, use only the accessories and screws provided with the device. Use of other accessories and screws could result in damage to the unit. Any damages incurred by using unapproved accessories are not covered by the warranty.



Note: The drawings in this document are for illustration only and may not match your particular model.

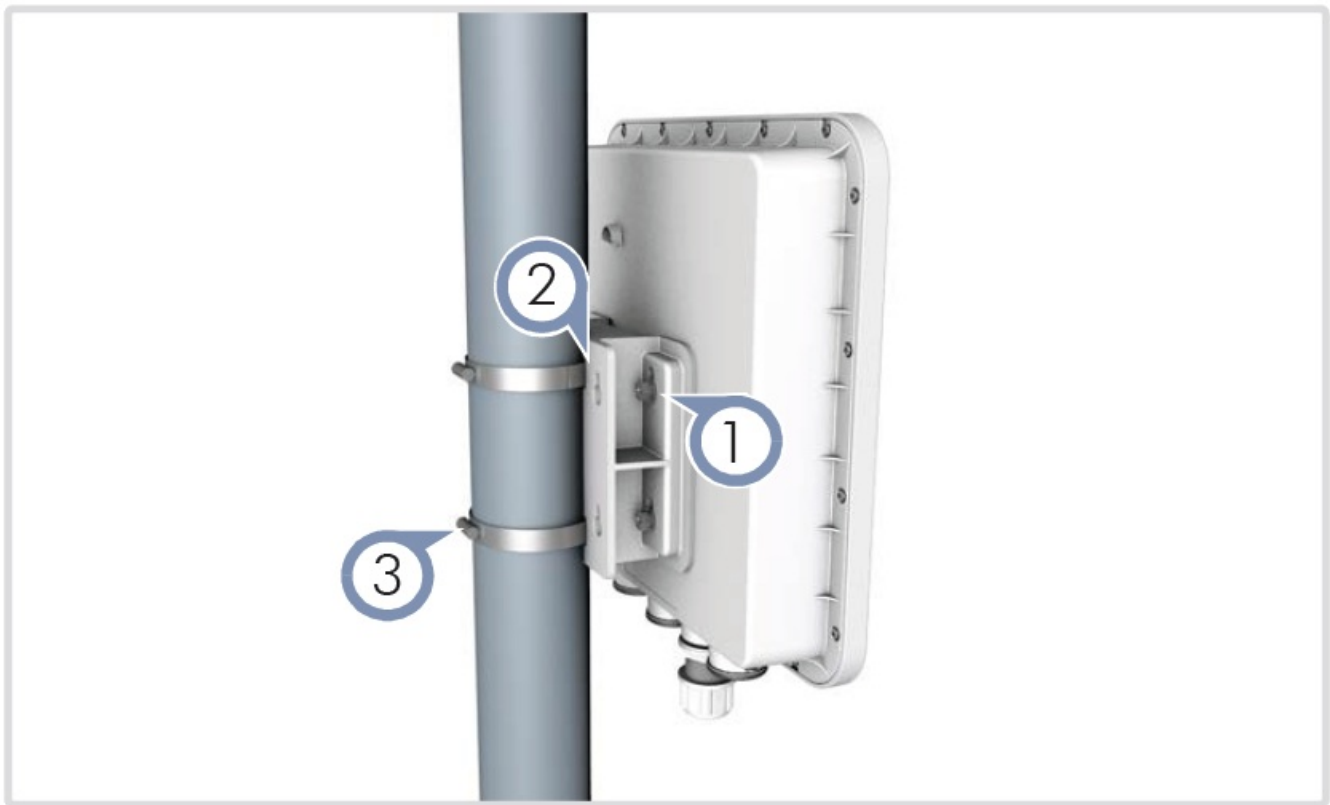
Mount the Device

Mounting on a Wall



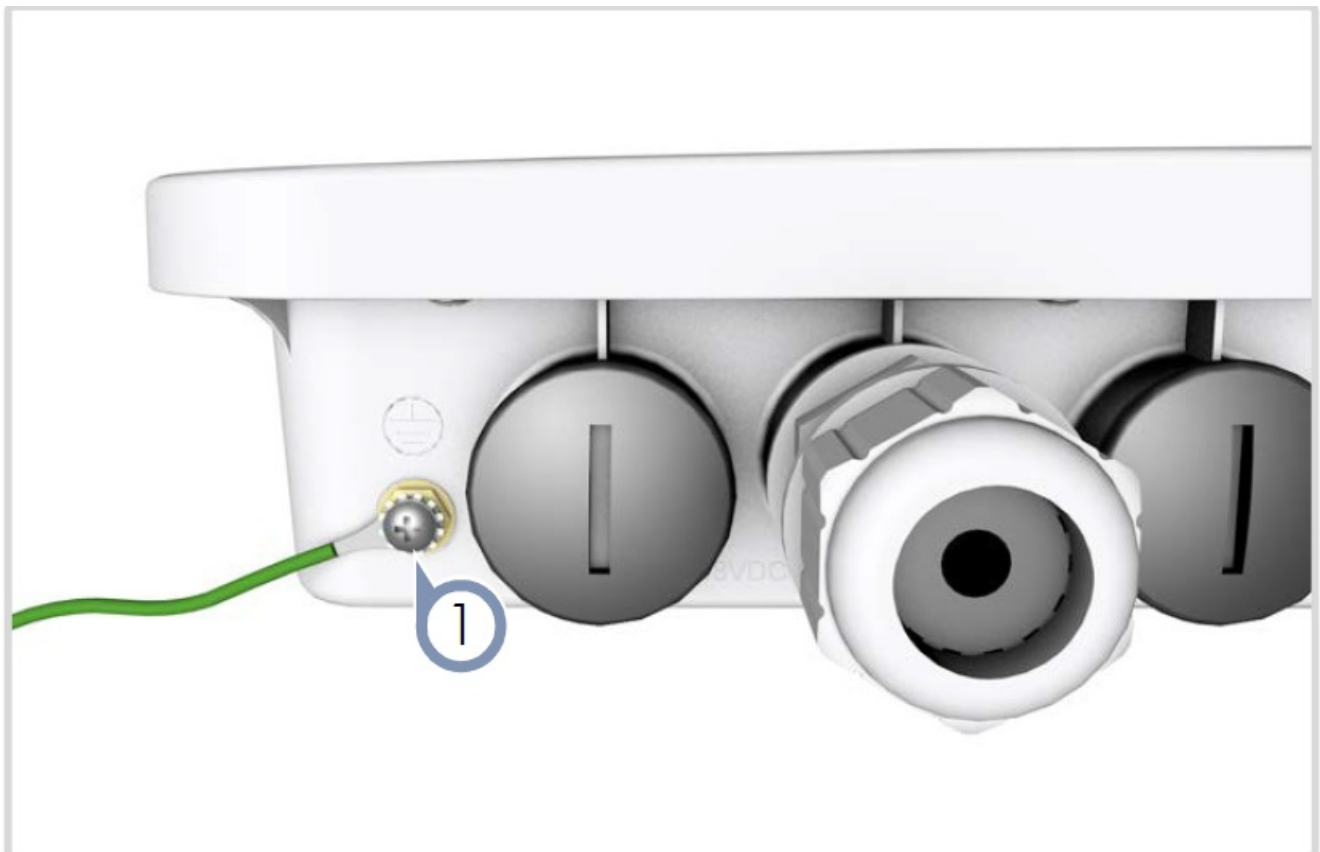
1. At the installation location on the wall, use the mounting bracket to mark four holes for the wall plugs and screws. The bracket must be installed with the marking “UP” at the top. Drill four holes for the wall plugs, and then insert the plugs and tap them flush with the wall surface.
Note: Drill 2.5 mm (± 0.2 mm) holes for M3 self-tapping screws, or 4.5 mm (± 0.2 mm) holes for nylon wall plugs.
2. Use the included M6 screws to attach the mounting bracket to the device.
3. With its ports facing down, slide the device down onto the pre-installed screws until it snaps into its secured position. Do not let go of the device until you confirm that it is secure.

Mounting on a Pole



1. Use the included M6 screws to attach the mounting bracket to the device.
2. Feed the two steel-band clamps through the pole-mount bracket mounting points.
3. Fasten the steel-band clamps around the pole to secure the AP to the pole.

Ground the Device



1. Ground the device by connecting a ground wire to the grounding point on the device and to nearby good earth.

Connect Cables

Connect Ethernet Cables



Note: Port covers and cable glands should be tightened to a torque of 10 kgf.cm.

1. Connect Category 5e or better cable to the Uplink (PoE In) 2.5GBASE-T RJ-45 port. When connected to a PoE source, the Uplink (PoE In) port connection provides power to the unit.
2. (Optional) Connect a local LAN switch or computers to the LAN 1000BASE-T RJ-45 port.

(Optional) Connect DC Power



3. Wire the included DC terminal plug to a 48 VDC, 0.5 A source to provide power to the device. Follow the wiring scheme shown on the panel with the negative pole (-) on the left and the positive pole (+) on the right.

(Optional) Management Connection

4. Connect an RJ-45 to DB9 straight-through console cable and then configure the serial connection: 115200 bps, 8 characters, no parity, one stop bit, 8 data bits, and no flow control.

Check AP LED



1. When operating normally, the Power/Status LED should be on yellow green. Blinking indicates the device is booting up.

Initial Setup and AP Registration

There are three options for setting up the AP for your network:

- If your network is already managed by ecCLOUD, you can just register the AP on your network by entering the MAC address and serial number on ecCLOUD.
- Connect to the AP's web interface through a network connection to one of the AP's LAN ports. See section "Connecting to the Web Interface".
- Use QR-Code Onboarding to connect to the AP through a web browser on a phone. See section "QR Code Onboarding".

The first-time you access the AP's web management interface, it automatically runs the Setup Wizard for initial AP configuration. Follow the Setup Wizard steps to configure the AP for management by ecCLOUD or in a stand-alone mode.

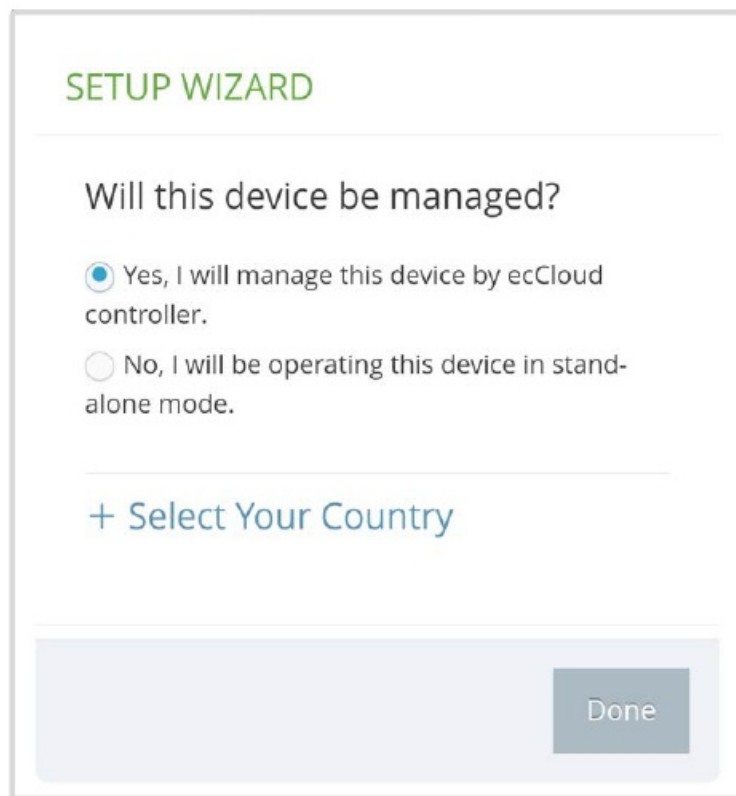
Connecting to the Web Interface

Follow these steps to connect to the AP's web interface through a network connection to one of the AP's LAN ports.

1. Connect a PC directly to one of the AP's LAN ports.
2. Set the PC IP address to be on the same subnet as the AP LAN port default IP address. (The PC address must start 192.168.2.x with subnet mask 255.255.255.0.)
3. Enter the AP's default IP address of 192.168.2.1 into the web browser address bar.

Note: To connect to the web interface using the Uplink (PoE) port, the IP address is automatically assigned through DHCP by default. If a DHCP server is unreachable, the Uplink (PoE) port reverts to a fallback IP address of 192.168.1.10.

4. On first-time log in to the web interface, the Setup Wizard starts and you must select how the AP will be managed using the ecCLOUD controller or in stand-alone mode.

The image shows a 'SETUP WIZARD' window. At the top, the title 'SETUP WIZARD' is in green. Below it, the question 'Will this device be managed?' is displayed. There are two radio button options: the first is selected and says 'Yes, I will manage this device by ecCloud controller.', and the second is unselected and says 'No, I will be operating this device in stand-alone mode.'. Below these options is a link that says '+ Select Your Country'. At the bottom right of the window is a 'Done' button.

SETUP WIZARD

Will this device be managed?

☒ Yes, I will manage this device by ecCloud controller.

☐ No, I will be operating this device in stand-alone mode.

[+ Select Your Country](#)

Done

5. Continue with the Setup Wizard to make other settings:

- Cloud-Managed Mode: Select the country of operation.
- Stand-Alone Mode: Use the default wireless network setting or customize the network name, then set a password (the default user name is “admin” with password “admin”), and select the country of operation.

6. Click “Done” to finish the setup wizard.

Note: For more information on the Setup Wizard and AP configuration, refer to the User Manual.

QR Code Onboarding

For quick set up and registration of your AP with the ecCLOUD controller, you can scan the QR code on the AP using a phone.

Follow these steps:

1. Make sure the AP is powered on and connected to the Internet.
2. Use the camera or a barcode app on your phone to scan the AP’s QR code. The QR code is printed on a label next to the AP’s ports.

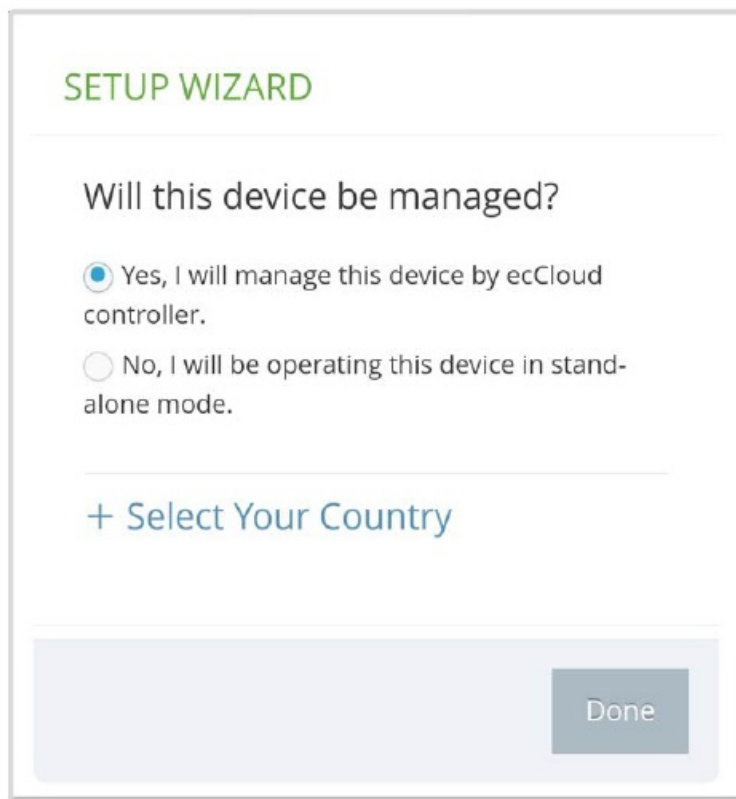


3. When a message pops up, tap “yes” to join the Wi-Fi network (iPhone requires you to go to Settings > Wi-Fi or open the browser for the message to pop up).

The web browser should open and redirect to the Setup Wizard page.

Note: If the phone cannot connect to the Wi-Fi network, type the SSID (network name) and password manually. The SSID name is the AP serial number (for example, EC0123456789), and the password is the AP MAC address (for example, 903CB3BC1234).

4. After setting a new password and the regulatory country, select to manage the AP using the ecCLOUD controller or to manage the AP in stand-alone mode.

The image shows a 'SETUP WIZARD' screen. At the top, the title 'SETUP WIZARD' is in green. Below it, the question 'Will this device be managed?' is displayed. There are two radio button options: 'Yes, I will manage this device by ecCloud controller.' (which is selected) and 'No, I will be operating this device in stand-alone mode.' Below the options is a link '+ Select Your Country'. At the bottom right is a 'Done' button.

SETUP WIZARD

Will this device be managed?

☒ Yes, I will manage this device by ecCloud controller.

☐ No, I will be operating this device in stand-alone mode.

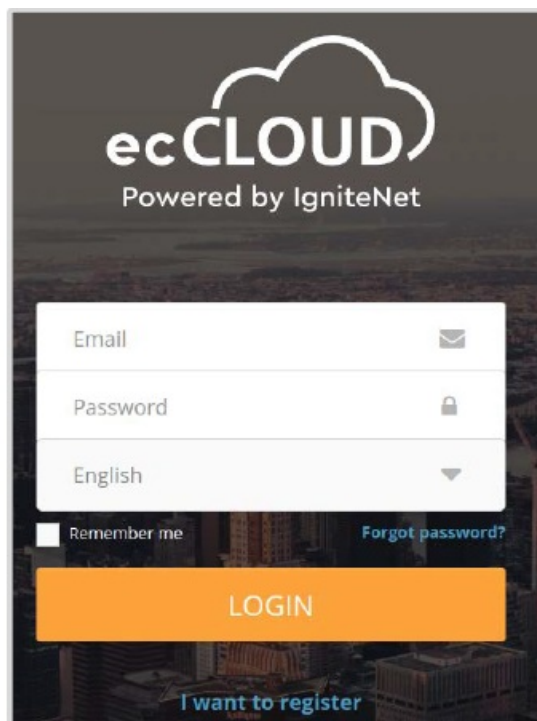
[+ Select Your Country](#)

Done

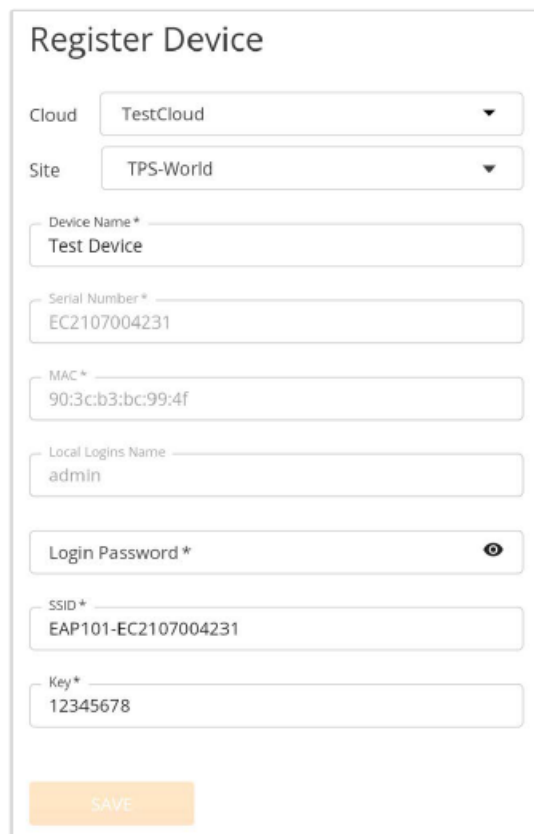
Stand-Alone Mode: Use the default wireless network setting or customize the network name and password. Tap “Done” to finish the Setup Wizard.

Wait about two minutes for the AP configuration to update, and then connect to the wireless network name configured in the setup wizard. The browser is then redirected to the login page of the AP.

Cloud-Managed Mode: Tap “Done” to finish the setup wizard and the browser is redirected to the ecCLOUD login page.

The image shows the ecCLOUD login page. At the top is the ecCLOUD logo with the tagline 'Powered by IgniteNet'. Below the logo are three input fields: 'Email' with an envelope icon, 'Password' with a lock icon, and 'English' with a dropdown arrow. Below these fields are two checkboxes: 'Remember me' and 'Forgot password?'. At the bottom is a large orange 'LOGIN' button. At the very bottom is a link 'I want to register'.

If you already have an ecCLOUD account, log in and select a site for the AP. The AP is automatically registered for cloud management. After you tap “Save,” wait about two minutes for the cloud controller to configure the AP.

A screenshot of a 'Register Device' form. The form has a title 'Register Device' at the top. Below the title are several input fields: 'Cloud' with a dropdown menu showing 'TestCloud', 'Site' with a dropdown menu showing 'TPS-World', 'Device Name*' with the text 'Test Device', 'Serial Number*' with the text 'EC2107004231', 'MAC*' with the text '90:3c:b3:bc:99:4f', 'Local Logins Name' with the text 'admin', 'Login Password*' with a toggle icon, 'SSID*' with the text 'EAP101-EC2107004231', and 'Key*' with the text '12345678'. At the bottom of the form is an orange 'SAVE' button.

Register Device

Cloud TestCloud

Site TPS-World

Device Name*
Test Device

Serial Number*
EC2107004231

MAC*
90:3c:b3:bc:99:4f

Local Logins Name
admin

Login Password*

SSID*
EAP101-EC2107004231

Key*
12345678

SAVE

If you do not have an ecCLOUD account, tap “I want to register” and first set up an account. Create a cloud and site before confirming the regulatory country. After tapping “Next,” the AP is then automatically registered for cloud management. After you tap “Save,” wait about two minutes for the cloud controller to configure the AP.

Note: Refer to the Edgecore ecCLOUD Controller User Manual for more information on setting up and configuring APs through ecCLOUD.

Safety and Regulatory Information

FCC 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.

For product available in the USA/Canada market, only channel 1–11 can be operated. Selection of other channels is not possible. The operation of this device is prohibited on oil platforms, cars, trains, boats, and aircraft. Operation of transmitters in the 5.925-7.125 GHz band is prohibited for control of or communications with unmanned aircraft systems.

IMPORTANT NOTE:

FCC Radiation Exposure Statement:

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

Model: OAP101, This equipment should be installed and operated with minimum distance 51 cm between the radiator and your body.

Model: OAP101-6E, This equipment should be installed and operated with minimum distance 59 cm between the radiator and your body.

Installation personnel

This product is designed for specific applications and should be installed by qualified personnel who have knowledge of RF and its related regulations. A general user shall not attempt to install or modify the equipment configuration.

Installation location

To meet regulatory RF exposure requirements, this product shall be installed at a location where, during normal operations, the radiating antenna is at least 59 cm away from any nearby persons.

External antenna

Use only the antennas which have been approved by the applicant. Using non-approved antenna(s) is prohibited and may produce unwanted spurious or excessive RF transmitting power which may lead to a violation of FCC limits.

Installation procedure

Please refer to this equipment's user manual for the procedure details.

FCC Warning: The installation position must be carefully selected so that the final output power does not exceed the limit set forth in relevant regulations. Violation of output power regulations could lead to serious federal penalties.

CE Statement

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

All operational modes:

2.4 GHz: 802.11b, 802.11g, 802.11n (HT20), 802.11n (HT40), 802.11ac (VHT20), 802.11ac (VHT40), 802.11ax (HE20), 802.11ax (HE40)

5 GHz: 802.11a, 802.11n (HT20), 802.11n (HT40), 802.11ac (VHT20), 802.11ac (VHT40), 802.11ac (VHT80), 802.11ax (HE20), 802.11ax (HE40), 802.11ax (HE80), 802.11ax (HE160)

BLE 2.4 GHz: 802.15.1

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

2412-2472 MHz: 20 dBm

5470-5725 MHz: 30 dBm



AT	BE	BG	CH	CY	CZ
DE	DK	EE	EL	ES	FI
FR	HR	HU	IE	IS	IT
LI	LT	LU	LV	MT	NL
NO	PL	PT	RO	SE	SI
SK	TR	UK			

The abbreviations of the countries, as prescribed in above table, where any restrictions on putting into service or any requirements for authorization of use exist.



CE Mark Declaration of Conformance for EMI and Safety (EEC)

This information technology equipment is in compliance with the Directive 2014/53/EU and Directive 2014/35/EU. The Declaration of Conformity (DoC) can be obtained from www.edge-core.com->support->download.

Warnings and Cautionary Messages

- This product does not contain any serviceable user parts.
- 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.

- Do not plug a phone jack connector in the RJ-45 port. This may damage this device.
- Use only twisted-pair cables with RJ-45 connectors that conform to FCC standards.

Hardware Specifications

AP Chassis

- Size (LxWxH) 293.4 x 283.4 x 71 mm (11.55 x 11.16 x 2.80 in.)
- Weight 1725 g (3.80 lb)
- Waterproof Rating IP66 and IP68
- Temperature Operating: -40° C to 60° C (-40° F to 140° F)
- Storage: -40° C to 70° C (-40° F to 158° F)
- Humidity Operating: 5% to 95% (non-condensing)

Network Interfaces

- Ports Uplink(PoE) RJ-45: 2.5GBASE-T, PoE PD LAN1 RJ-45: 1000BASE-T
2.4 GHz Radio IEEE 802.11b/g/n/ax
5 GHz Radio IEEE 802.11a/ac/n/ax

6 GHz Radio IEEE 802.11a/ac/n/ax (OAP101-6E only)

- Bluetooth Radio IEEE 802.15.1
- Radio Frequencies US:
 - 2.4–2.4835 GHz
 - 5.15–5.85 GHz
 - 5.925–6.425 GHz (OAP101-6E only)
 - 6.525–6.875 GHz (OAP101-6E only)
- EU:
 - 2.4–2.4835 GHz
 - 5.47–5.725 GHz

Power Specifications

- PoE Input Power 25.5 W max 802.3at-compliant
- DC Power DC Input: 48 VDC, 0.5 A

Regulatory Compliances

- Radio EN 300 328 V2.2.2 (2.4G/BT-LE)
 - EN 301 893 V2.1.1 (5G)
 - EN 303 413 V1.1.1 (GPS)
 - EN 50385 / EN 62311: 2017 (MPE)
 - 47 CFR FCC Part 15.247
 - 47 CFR FCC Part 15.407
- Emissions EN 301 489-1 V2.1.1 (2017-02)
 - EN 301 489-17 V3.1.1 (2017-02)
 - EN 55032:2015
 - 47 CFR FCC Rules and Regulations Part 15 Subpart B, Class B Digital Device
- Safety EN 62368-1: 2014 + A11: 2017
 - EN 60950-22: 2017
 - IEC 62368-1: 2014 (Second Edition)
 - IEC 60529: 1989+AMD1: 1999+ AMD2: 2013CSV (IP68)

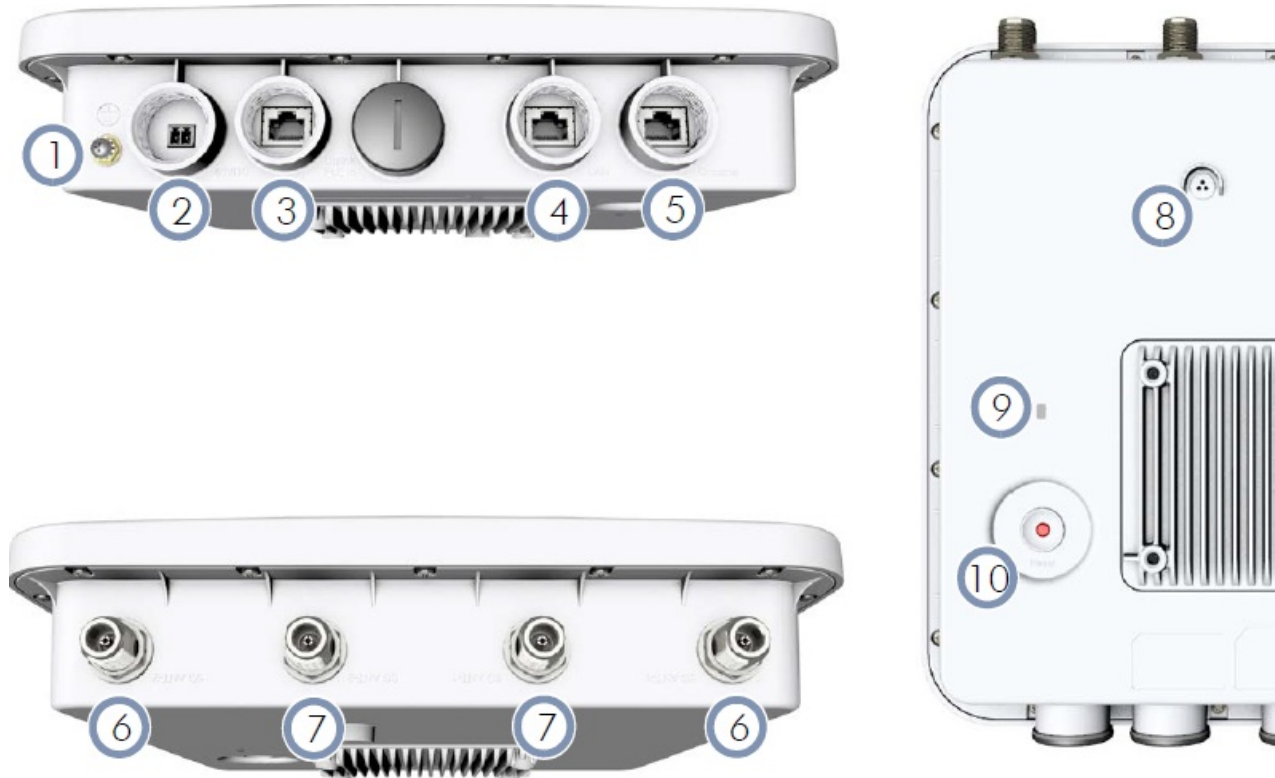
Package Contents



1. OAP101e or OAP101e-6E access point
2. Mounting bracket and 4 x M6 screws

3. 2 x 5 GHz external antennas and 2 x 6 GHz external antennas (OAP101e-6E only)
4. DC terminal plug
5. 3 x Cable glands
6. 2 x Steel-band clamps for pole mount (2.5 inch diameter max.)
7. Screw kit—4 screws and 4 plugs
8. QR code card

Overview



1. Grounding point
2. DC In port: 48 VDC, 0.5 A
3. Uplink (PoE) port: RJ-45 2.5GBASE-T connection to 802.3at PoE
4. LAN port: 1 Gbps LAN connection
5. Console port
6. 5 GHz antenna connector
7. 6 GHz antenna connector (OAP101e-6E only)
8. Moisture protective vent

9. Power/Status LED:

- Yellow green: On (power OK), Blinking (boot up)
- Blue: On (cloud managed)
- Purple: Blinking (uplink activity in cloud managed mode)
- Orange: Blinking (uplink activity in stand-alone mode)

10. Restart/Reset button:

- A quick press restarts the system.
- Press and hold for 5 seconds resets to factory defaults.

Installation



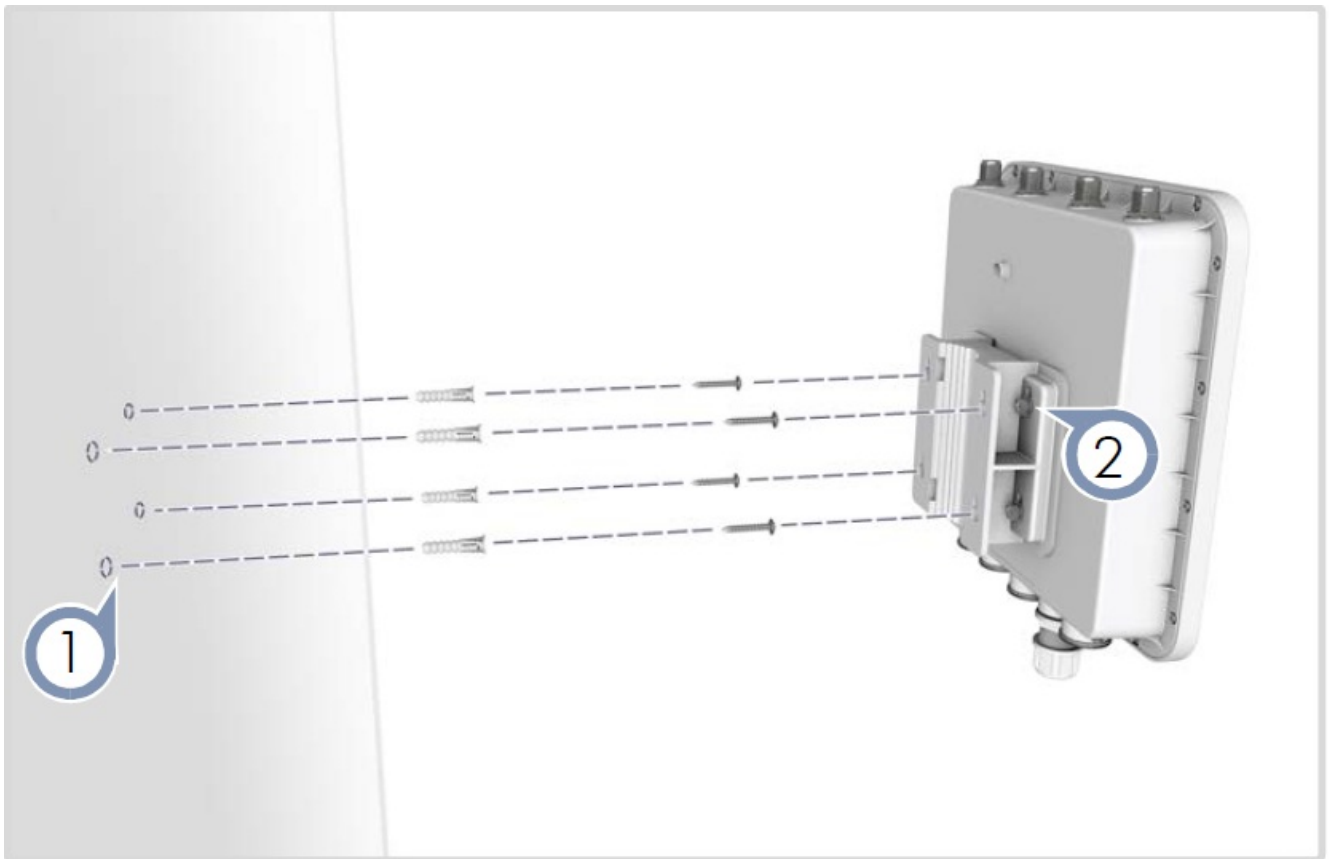
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Note: The drawings in this document are for illustration only and may not match your particular model.

Mount the Device

Mounting on a Wall

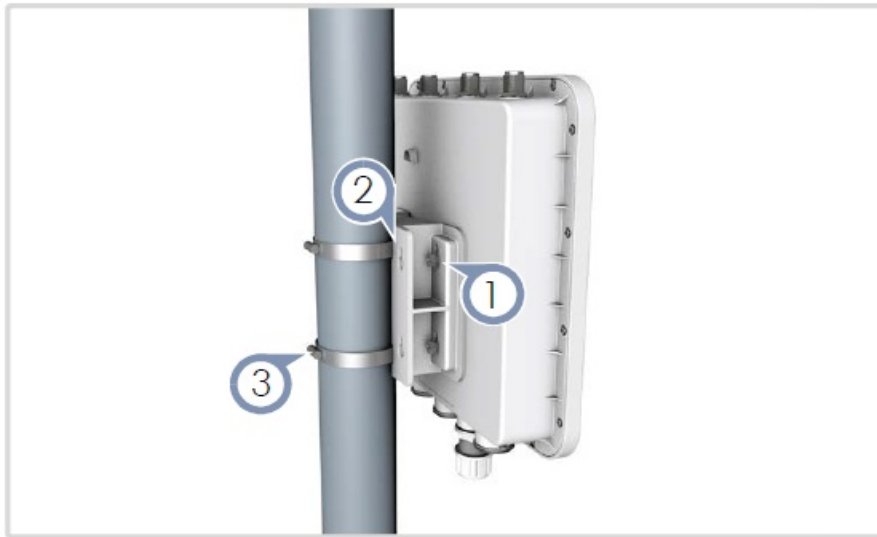


1. At the installation location on the wall, use the mounting bracket to mark four holes for the wall plugs and screws. The bracket must be installed with the marking “UP” at the top. Drill four holes for the wall plugs, and then insert the plugs and tap them flush with the wall surface.

Note: Drill 2.5 mm (± 0.2 mm) holes for M3 self-tapping screws, or 4.5 mm (± 0.2 mm) holes for nylon wall plugs.

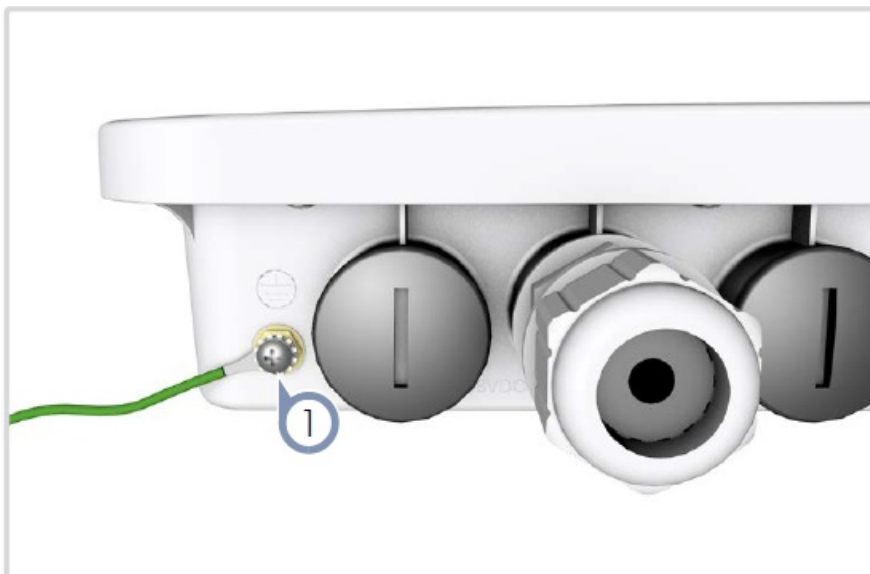
2. Use the included M6 screws to attach the mounting bracket to the device.
3. With its ports facing down, slide the device down onto the pre-installed screws until it snaps into its secured position. Do not let go of the device until you confirm that it is secure.

Mounting on a Pole



1. Use the included M6 screws to attach the mounting bracket to the device.
2. Feed the two steel-band clamps through the pole-mount bracket mounting points.
3. Fasten the steel-band clamps around the pole to secure the AP to the pole.

Ground the Device



1. Ground the device by connecting a ground wire to the grounding point on the device and to nearby good earth.

Install the External Antennas



1. Install the included Wi-Fi 5 GHz external antennas to improve coverage. Match the antennas marked 5GHz to the 5G-ANT1 and 5G-ANT2 connectors on the device.
2. Install the included Wi-Fi 6 GHz external antennas (OAP101e-6E only).

Connect Cables

Connect Ethernet Cables



Note: Port covers and cable glands should be tightened to a torque of 10 kgf.cm.

1. Connect Category 5e or better cable to the Uplink (PoE In) 2.5GBASE-T RJ-45 port. When connected to a PoE source, the Uplink (PoE In) port connection provides power to the unit.
2. (Optional) Connect a local LAN switch or computers to the LAN 1000BASE-T RJ-45 port.

(Optional) Connect DC Power

- 3.



Wire the included DC terminal plug to a 48 VDC, 0.5 A source to provide power to the device. Follow the wiring scheme shown on the panel with the negative pole (-) on the left and the positive pole (+) on the right.

(Optional) Management Connection

4. Connect an RJ-45 to DB9 straight-through console cable and then configure the serial connection: 115200 bps, 8 characters, no parity, one stop bit, 8 data bits, and no flow control.

Check AP LED



1. When operating normally, the Power/Status LED should be on yellow green. Blinking indicates the device is booting up.

Initial Setup and AP Registration

There are three options for setting up the AP for your network:

- If your network is already managed by ecCLOUD, you can just register the AP on your network by entering the MAC address and serial number on ecCLOUD.

- Connect to the AP's web interface through a network connection to one of the AP's LAN ports. See section "Connecting to the Web Interface".
- Use QR-Code Onboarding to connect to the AP through a web browser on a phone. See section "QR Code Onboarding".

The first-time you access the AP's web management interface, it automatically runs the Setup Wizard for initial AP configuration. Follow the Setup Wizard steps to configure the AP for management by ecCLOUD or in a stand-alone mode.

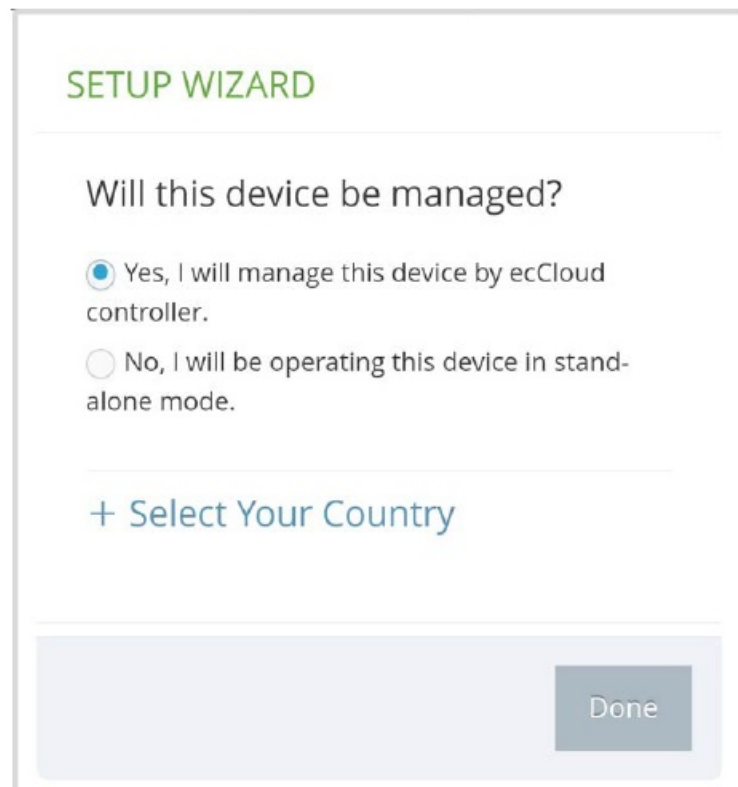
Connecting to the Web Interface

Follow these steps to connect to the AP's web interface through a network connection to one of the AP's LAN ports.

1. Connect a PC directly to one of the AP's LAN ports.
2. Set the PC IP address to be on the same subnet as the AP LAN port default IP address. (The PC address must start 192.168.2.x with subnet mask 255.255.255.0.)
3. Enter the AP's default IP address of 192.168.2.1 into the web browser address bar.

Note: To connect to the web interface using the Uplink (PoE) port, the IP address is automatically assigned through DHCP by default. If a DHCP server is unreachable, the Uplink (PoE) port reverts to a fallback IP address of 192.168.1.10.

4. On first-time log in to the web interface, the Setup Wizard starts and you must select how the AP will be managed using the ecCLOUD controller or in stand-alone mode.



SETUP WIZARD

Will this device be managed?

☒ Yes, I will manage this device by ecCloud controller.

☐ No, I will be operating this device in stand-alone mode.

[+ Select Your Country](#)

Done

5. Continue with the Setup Wizard to make other settings:

- Cloud-Managed Mode: Select the country of operation.
- Stand-Alone Mode: Use the default wireless network setting or customize the network name, then set a password (the default user name is "admin" with password "admin"), and select the country of operation.

6. Click "Done" to finish the setup wizard.

Note: For more information on the Setup Wizard and AP configuration, refer to the User Manual.

QR Code Onboarding

For quick set up and registration of your AP with the ecCLOUD controller, you can scan the QR code on the AP using a phone.

Follow these steps:

1. Make sure the AP is powered on and connected to the Internet.
2. Use the camera or a barcode app on your phone to scan the AP's QR code. The QR code is printed on a label next to the AP's ports.

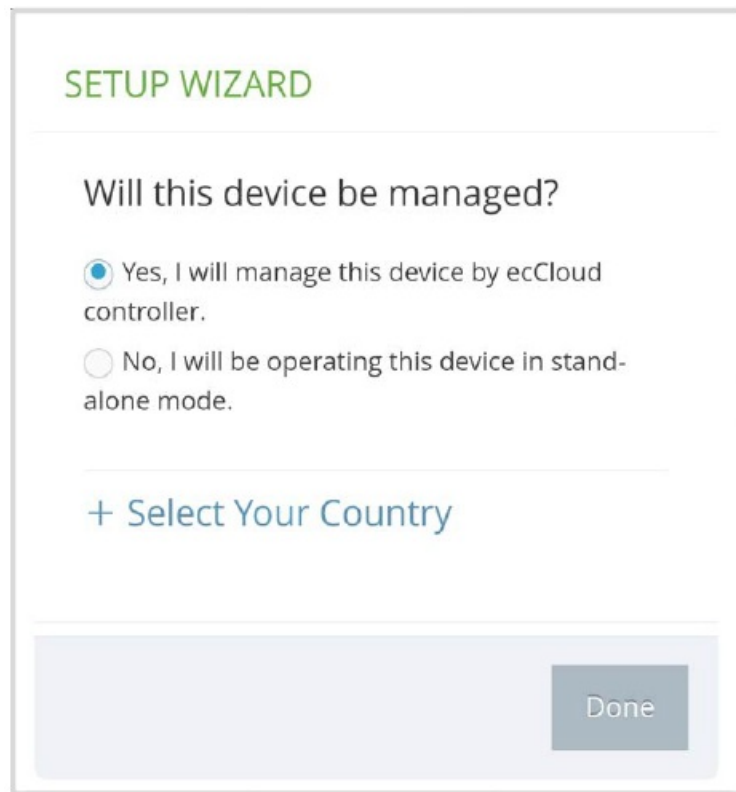


3. When a message pops up, tap “yes” to join the Wi-Fi network (iPhone requires you to go to Settings > Wi-Fi or open the browser for the message to pop up).

The web browser should open and redirect to the Setup Wizard page.

Note: If the phone cannot connect to the Wi-Fi network, type the SSID (network name) and password manually. The SSID name is the AP serial number (for example, EC0123456789), and the password is the AP MAC address (for example, 903CB3BC1234).

4. After setting a new password and the regulatory country, select to manage the AP using the ecCLOUD controller or to manage the AP in stand-alone mode.

The image shows a 'SETUP WIZARD' screen. At the top, the title 'SETUP WIZARD' is in green. Below it, the question 'Will this device be managed?' is displayed. There are two radio button options: 'Yes, I will manage this device by ecCloud controller.' (which is selected) and 'No, I will be operating this device in stand-alone mode.' Below the options is a link '+ Select Your Country'. At the bottom right is a 'Done' button.

SETUP WIZARD

Will this device be managed?

☒ Yes, I will manage this device by ecCloud controller.

☐ No, I will be operating this device in stand-alone mode.

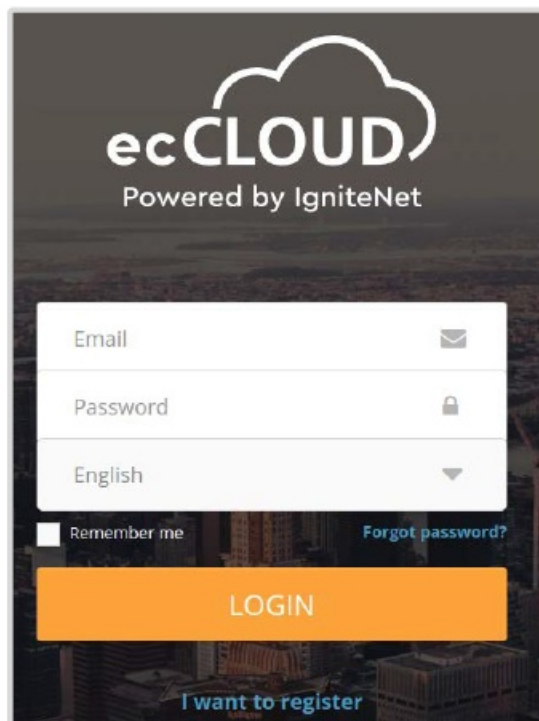
[+ Select Your Country](#)

Done

Stand-Alone Mode: Use the default wireless network setting or customize the network name and password. Tap “Done” to finish the Setup Wizard.

Wait about two minutes for the AP configuration to update, and then connect to the wireless network name configured in the setup wizard. The browser is then redirected to the login page of the AP.

Cloud-Managed Mode: Tap “Done” to finish the setup wizard and the browser is redirected to the ecCLOUD login page.

The image shows the ecCLOUD login page. The background is a dark cityscape at night. At the top, the 'ecCLOUD' logo is displayed with a cloud icon, and below it, 'Powered by IgniteNet'. There are three input fields: 'Email' with an envelope icon, 'Password' with a lock icon, and 'English' with a dropdown arrow. Below these fields are two checkboxes: 'Remember me' and 'Forgot password?'. A large orange 'LOGIN' button is in the center. At the bottom, there is a link 'I want to register'.

If you already have an ecCLOUD account, log in and select a site for the AP. The AP is automatically registered for cloud management. After you tap “Save,” wait about two minutes for the cloud controller to configure the AP.

Register Device

Cloud
TestCloud

Site
TPS-World

Device Name *
Test Device

Serial Number *
EC2107004231

MAC *
90:3c:b3:bc:99:4f

Local Logins Name
admin

Login Password *

SSID *
EAP101-EC2107004231

Key *
12345678

SAVE

If you do not have an ecCLOUD account, tap “I want to register” and first set up an account. Create a cloud and site before confirming the regulatory country. After tapping “Next,” the AP is then automatically registered for cloud management. After you tap “Save,” wait about two minutes for the cloud controller to configure the AP.

Note: Refer to the Edgecore ecCLOUD Controller User Manual for more information on setting up and configuring APs through ecCLOUD.

Safety and Regulatory Information

FCC 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.

For product available in the USA/Canada market, only channel 1–11 can be operated. Selection of other channels

is not possible. The operation of this device is prohibited on oil platforms, cars, trains, boats, and aircraft. Operation of transmitters in the 5.925-7.125 GHz band is prohibited for control of or communications with unmanned aircraft systems.

IMPORTANT NOTE:

FCC Radiation Exposure Statement:

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

Model: OAP101e, This equipment should be installed and operated with minimum distance 51 cm between the radiator and your body.

Model: OAP101e-6E, This equipment should be installed and operated with minimum distance 59 cm between the radiator and your body.

Installation personnel

This product is designed for specific applications and should be installed by qualified personnel who have knowledge of RF and its related regulations. A general user shall not attempt to install or modify the equipment configuration.

Installation location

To meet regulatory RF exposure requirements, this product shall be installed at a location where, during normal operations, the radiating antenna is at least 59 cm away from any nearby persons.

External antenna

Use only the antennas which have been approved by the applicant. Using non-approved antenna(s) is prohibited and may produce unwanted spurious or excessive RF transmitting power which may lead to a violation of FCC limits.

Installation procedure

Please refer to this equipment's user manual for the procedure details.

FCC Warning: The installation position must be carefully selected so that the final output power does not exceed the limit set forth in relevant regulations. Violation of output power regulations could lead to serious federal penalties.

CE Statement

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

All operational modes:

2.4 GHz: 802.11b, 802.11g, 802.11n (HT20), 802.11n (HT40), 802.11ac (VHT20), 802.11ac (VHT40), 802.11ax (HE20), 802.11ax (HE40)

5 GHz: 802.11a, 802.11n (HT20), 802.11n (HT40), 802.11ac (VHT20), 802.11ac (VHT40), 802.11ac (VHT80), 802.11ax (HE20), 802.11ax (HE40), 802.11ax (HE80), 802.11ax (HE160)

BLE 2.4 GHz: 802.15.1

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

- 2412-2472 MHz: 20 dBm
- 5470-5725 MHz: 30 dBm



AT	BE	BG	CH	CY	CZ
DE	DK	EE	EL	ES	FI
FR	HR	HU	IE	IS	IT
LI	LT	LU	LV	MT	NL
NO	PL	PT	RO	SE	SI
SK	TR	UK			

The abbreviations of the countries, as prescribed in above table, where any restrictions on putting into service or any requirements for authorization of use exist.

CE Mark Declaration of Conformance for EMI and Safety (EEC)

This information technology equipment is in compliance with the Directive 2014/53/EU and Directive 2014/35/EU.

The Declaration of Conformity (DoC) can be obtained from www.edge-core.com->support->download.

Warnings and Cautionary Messages

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

- 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.

- Do not plug a phone jack connector in the RJ-45 port. This may damage this device.
- Use only twisted-pair cables with RJ-45 connectors that conform to FCC standards.

Hardware Specifications

AP Chassis

- Size (LxWxH) 293.4 x 283.4 x 71 mm (11.55 x 11.16 x 2.80 in.)
- Weight 1850 g (4.08 lb)
- Waterproof Rating IP66 and IP68
- Temperature Operating: -40° C to 60° C (-40° F to 140° F)
- Storage: -40° C to 70° C (-40° F to 158° F)
- Humidity Operating: 5% to 95% (non-condensing)

Network Interfaces

- Ports Uplink(PoE) RJ-45: 2.5GBASE-T, PoE PD
LAN1 RJ-45: 1000BASE-T
- 2.4 GHz Radio IEEE 802.11b/g/n/ax
- 5 GHz Radio IEEE 802.11a/ac/n/ax
- 6 GHz Radio IEEE 802.11a/ac/n/ax (OAP101e-6E only)

- Bluetooth Radio IEEE 802.15.1
- Radio Frequencies US:
 - 2.4–2.4835 GHz
 - 5.15–5.85 GHz
 - 5.925-6.425 GHz (OAP101e-6E only)
 - 6.525-6.875 GHz (OAP101e-6E only)
- EU:
 - 2.4–2.4835 GHz
 - 5.47–5.725 GHz


Power Specifications

- PoE Input Power 25.5 W max 802.3at-compliant
- DC Power DC Input: 48 VDC, 0.5 A

Regulatory Compliances

- Radio EN 300 328 V2.2.2 (2.4G/BT-LE)
EN 301 893 V2.1.1 (5G)
EN 303 413 V1.1.1 (GPS)
EN 50385 / EN 62311: 2017 (MPE)
47 CFR FCC Part 15.247
47 CFR FCC Part 15.407
- Emissions EN 301 489-1 V2.1.1 (2017-02)
EN 301 489-17 V3.1.1 (2017-02)
EN 55032:2015
47 CFR FCC Rules and Regulations Part 15 Subpart B, Class B Digital Device
- Safety
EN 62368-1: 2014 + A11: 2017
EN 60950-22: 2017
IEC 62368-1: 2014 (Second Edition)
IEC 60529: 1989+AMD1: 1999+ AMD2: 2013CSV (IP68)

Documents / Resources

	<p>Edge-core OAP101E Wi-Fi 6 Access Point [pdf] User Guide</p> <p>OAP101E Wi-Fi 6 Access Point, OAP101E, Wi-Fi 6 Access Point, Access Point, Point</p>
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References

- [User Manual](#)

[Manuals+](#), [Privacy Policy](#)

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