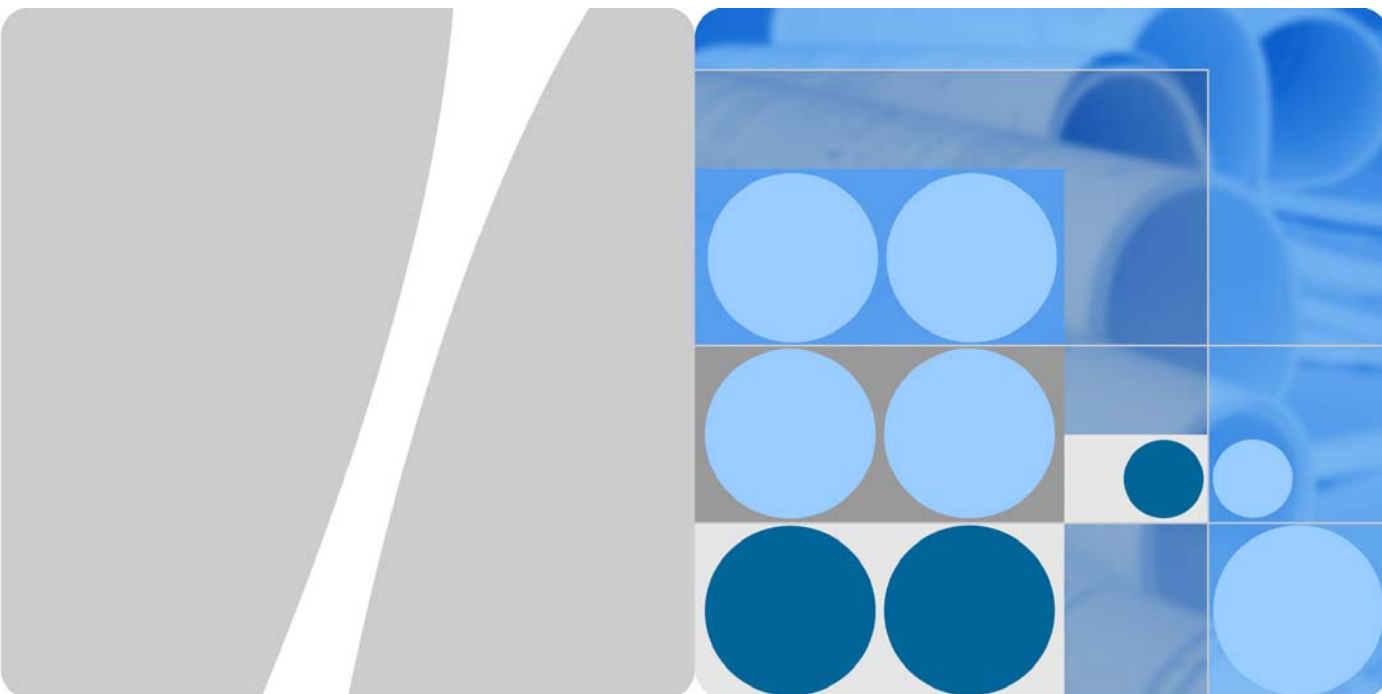




eLTE2.2 eA660 Series CPE

User Guide

Issue **01**
Date **2013-10-30**

HUAWEI TECHNOLOGIES CO., LTD.



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About This Document

Overview

This document describes the hardware, functions, installation, configuration, operation and maintenance (OM) of the eA660 series customer premises equipment (CPE).

Product Version

Product Name	Product Version
eA660 Series CPE	V100R001C01

Intended Audience

This document is intended for:

- System engineers
- Product engineers
- Technical support engineers

Change History

Issue 01 (2013-10-30)

This is the first commercial release.

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1 Overview

1.1 Product Introduction

HUAWEI eA660 is a piece of customer premises equipment (CPE) that functions as the long term evolution (LTE) wireless gateway. It implements the conversion between LTE wireless data and wired Ethernet data and supports data backhaul. The eA660 series can be used independently and deployed outdoors.

The eA660 supports the LTE R8 standards and provides the following services:

- Data services
The eA660 series uses LTE broadband technologies to support high-speed broadband network access, data backhaul, and video surveillance.
- Small-scale local area network (LAN)
The eA660 series can connect to external concentrators and Ethernet switches or routers to set up a LAN with multiple computers. When terminal devices on the LAN connect to the eA660 using network cables, the terminal devices can provide data services.
- Security services
The eA660 series supports the firewall and PIN password, which protects your computers when you access the Internet.
- Firewall services
The eA660 series supports the following firewall services:
 - Firewall enabling or disabling: enables or disables firewalls.
 - Media access control (MAC) address filtering: prevents certain MAC addresses from accessing the computers on a LAN.
 - IP address filtering: blocks certain IP addresses from accessing the local computers.
 - URL filtering: prevents computers from accessing certain URLs.
- Local and remote management and maintenance
The eA660 series can be locally configured in the local city to implement device management and network configuration, thereby ensuring stable operation of the device.

Warning

- 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.
- FCC Caution To assure continued compliance, any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.
- FCC Radiation Exposure Statement To comply with FCC RF exposure requirements in section 1.1307, a minimum separation distance of 20cm is required between the antenna and all public persons.

1.2 Application Scenarios

The eA660 provides wireless broadband and wired Ethernet data services.

The eA660 is deployed outdoors and provides wireless gateway services. The eA660 can be deployed independently or used in conjunction with the eA100, which is deployed indoors and connected to the eA660 using a network cable, enabling the eA660 to provide Wi-Fi and other Internet services.

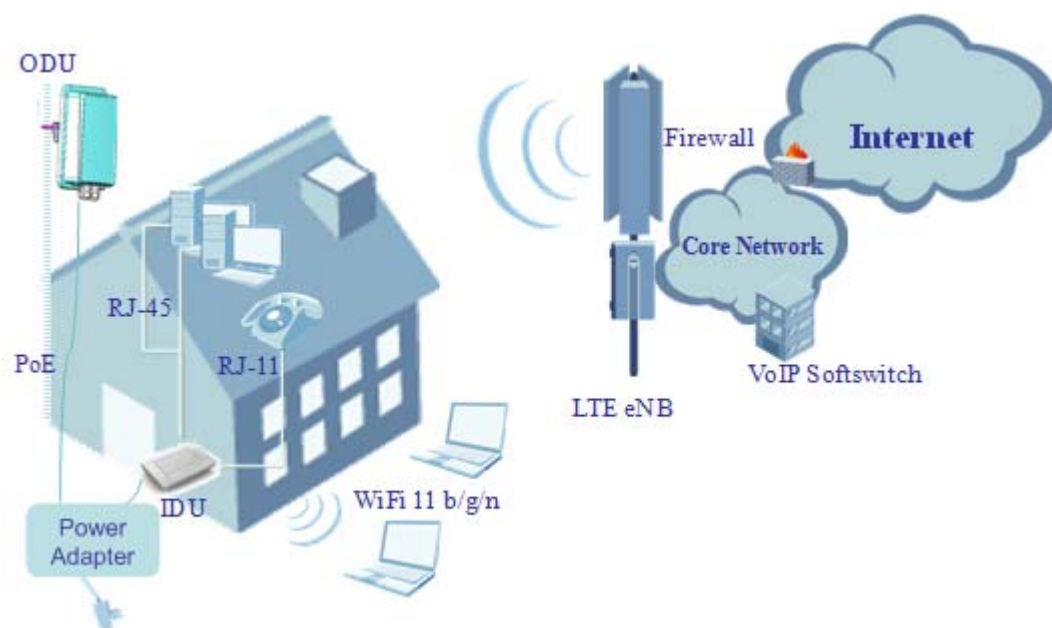


NOTE

For details about the eA100, see the *eLTE2.1 eA100 Series CPE Product Description*.

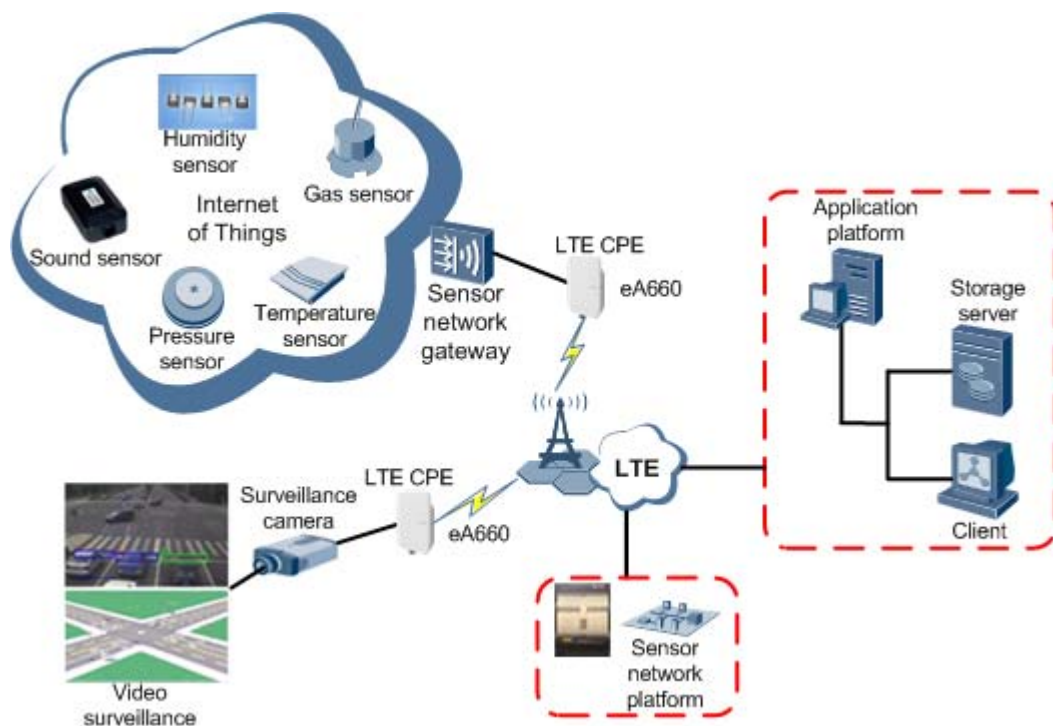
[Figure 1-1](#) shows an application scenario in which the eA660 is used with the eA100.

Figure 1-1 The eA660 deployed with the eA100



The eA660 provides a variety of data services, such as LTE-TDD wireless routing and converting LTE wireless data into wired Ethernet data, and vice versa. [Figure 1-2](#) shows an application scenario in which the eA660 is used in private industrial networks.

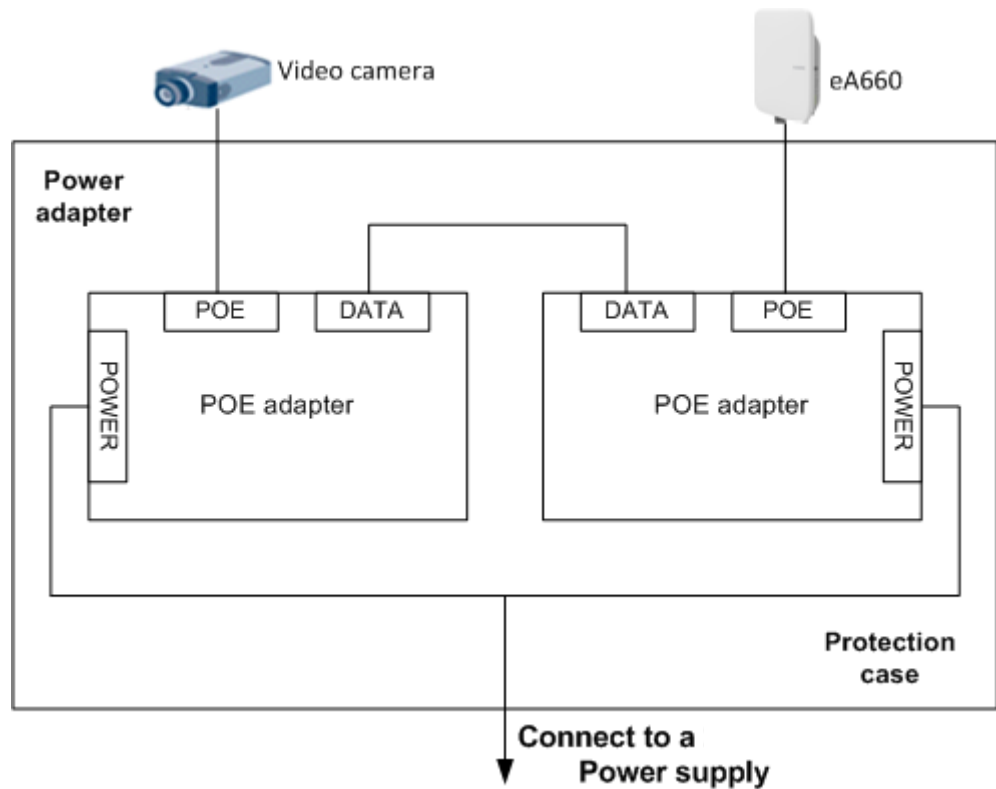
Figure 1-2 The eA660 deployed in industrial private networks



The following example describes how to use the eA660 for video monitoring.

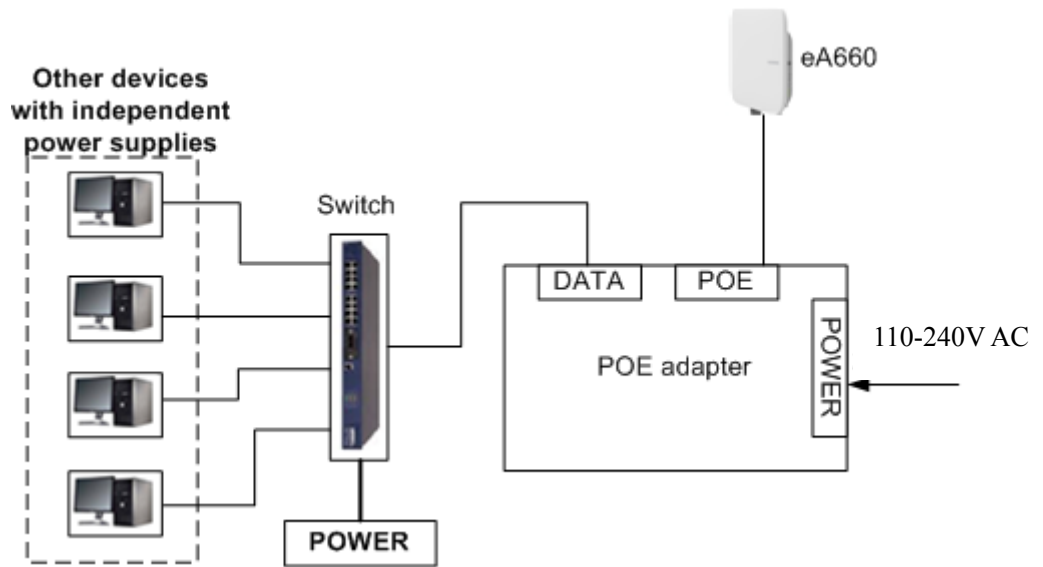
1. Use a power adapter to supply power for the eA660 or video camera, as shown in [Figure 1-3](#).

Figure 1-3 The eA660 connected to a video camera.



2. Use a network cable to connect the eA660 to an external device. If the eA660 connects to a single device, connect the power adapter directly to the eA660. If the eA660 connects to multiple devices, connect the power adapter to a Hub or switch and then to the eA660, as shown in [Figure 1-4](#).

Figure 1-4 The eA660 connected to multiple devices



1.3 Hardware Specifications

Table 1-1 describes the technical specifications of eA660.

Table 1-1 Technical specifications of eA660

Category	eA660-160	eA660-135
Technical standards	WAN: LTE R8 LAN: IEEE 802.3/802.3u	
Working band	LTE TDD (2300 MHz to 2400 MHz) LTE TDD (2570 MHz to 2620 MHz)	LTE TDD (3650 MHz to 3675 MHz)
External ports	1 Ethernet interface (RJ45): 10/100Base-TX 1 USB interface 2 External antenna interface (N) 1 SIM card slot	
Transmit power	- LTE 23 dBm (± 2)	
Receiving sensitivity	- LTE - Meets the 3GPP 36 101 standard < -100 dBm/5 MHz < -97 dBm/10 MHz	- LTE - Meets the 3GPP 36 101 standard < -96 dBm/10 MHz < -94.2dBm/20 MHz

Category	eA660-160	eA660-135
	< -94 dBm/20 MHz	< -93 dBm/20 MHz
Power consumption	< 25 W	
Power supply	Power over Ethernet (PoE) power supply	
Dimensions (H x W x D)	280 mm x 250 mm x 90 mm	
Waterproof and dustproof grade	IP67	
Weight	About 1500 g (without power adapter)	
Working temperature	-40°C to 65°C	
Storage temperature	-40°C to 70°C	
Relative humidity	5% RH to 95% RH	
Installation method	Mounted on utility poles or walls	

1.4 Antenna Specifications

[Table 1-2](#) and lists the eA660 antenna's specifications.

Table 1-2 eA660 LTE antenna specifications

Item	eA660-160	eA660-135
Band	2300 MHz to 2400 MHz (LTE Band 40) 2570 MHz to 2620 MHz (LTE Band 38)	3650 MHz to 3675 MHz (LTE Band 43)
Input impedance	50 ohm	50 ohm
SWR	< 2	< 2
Gain	13 dBi	16 dBi
Polarization	Dual polarization	Dual polarization
Radiation pattern	Directional antenna	Directional antenna

2 Hardware

2.1 eA660 Hardware

This section describes the appearance, ports, and indicators of the eA660.

Appearance

Figure 2-1 shows the appearance of the eA660.

Figure 2-1 eA660 appearance



Panel

The panel of the eA660 provides the Power over Ethernet (PoE) port, SIM card maintenance window, and indicator.

Figure 2-2 shows the panel of the eA660.

Figure 2-2 Panel of the eA660

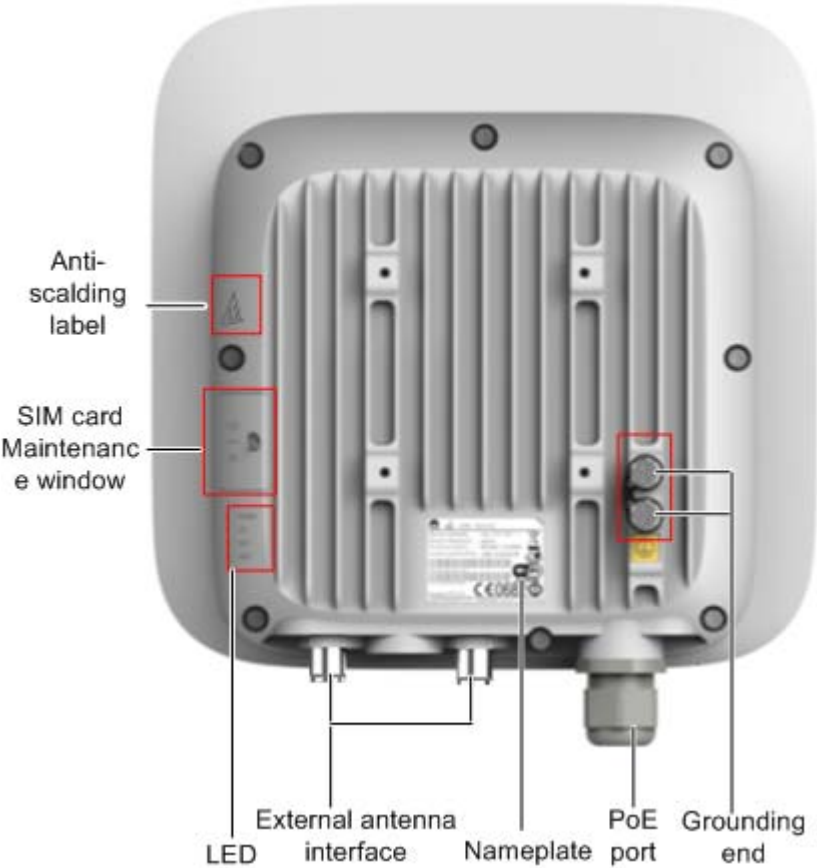


Table 2-1 lists the ports of the eA660.

Table 2-1 Ports on the eA660

Name	Description
PoE	PoE port
LED	Indicators
SIM card maintenance window	Consists of the SIM card slot and USB port. - A SIM card is inserted into the SIM card slot. - The USB port is used for internal commissioning.
Grounding end	Connects a ground cable
Nameplate	Displays the identifier information of a vendor
Anti-scalding label	Anti-scalding sign
External antenna interface	NOTE Only supports dual-polarized antenna or dual

Name	Description
	antenna installation.

Indicators of the eA660 are below the SIM card maintenance window and are used to indicate the running status of the eA660.

The four indicators from top to bottom are **POWER**, **WLINK**, **RSSI**, and **HEAT**, as shown in [Figure 2-3](#).

Figure 2-3 Indicators of the eA660



[Table 2-2](#) describes the indicators of the eA660.

Table 2-2 Indicators of the eA660

Identifier	Status	Description
POWER	On	The power supply is normal.
	Off	No power is supplied.
WLINK	Steady on	The eA660 is successfully registered to the network.
	Blink per 1000 ms	The product fails to register to the network.
RSSI NOTE The blink frequency	Steady on	The signal strength ranges from -40 dBm to -60 dBm.
	Blink per 500 ms	The signal strength ranges from -60

Identifier	Status	Description
of the RSSI indicator on the panel is determined by the value of the reference signal received power (RSRP).		dBm to –80 dBm.
	Blink per 1000 ms	The signal strength ranges from –80 dBm to –105 dBm.
	Blink per 2000 ms	The signal strength ranges from -105 dBm to -120 dBm.
	Off	The signal strength is equal to or smaller than –120 dBm.
HEAT	Controlled by the hardware temperature.	When the hardware temperature is lower than 0°C, the hardware is heated and the indicator is on. When the hardware temperature is higher than 0°C, the indicator is off.

2.2 eA660 Cables

2.2.1 PoE Network Cable

The power over ethernet (PoE) network cable is a shielded network cable that is used to connect the PoE port of the eA660. The PoE network cable connects to an RJ45 connector at both ends.

Background Information

The PoE network cable transmits data signals to the eA660 and provides DC power for the equipment.

Technical Specifications

[Table 2-3](#) lists the technical specifications of the PoE network cable.

Table 2-3 Technical specifications of the PoE network cable

Name	Description
Color	Black
Outer diameter	6.8 mm
Working temperature range	–40°C to 75°C

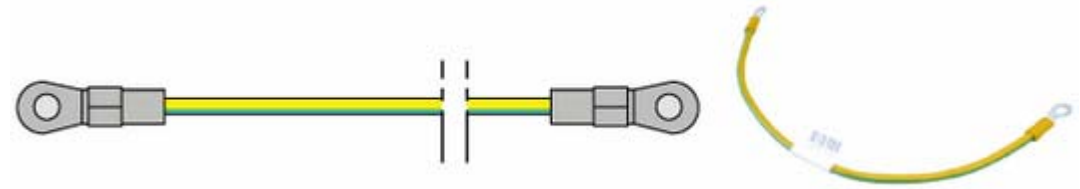
2.2.2 Ground Cable

The ground cable ensures the proper grounding of the eA660.

Appearance

The ground cable provides a 6 mm² cross-section, is yellow-green, and has OT terminals at both ends. Figure 2-4 shows the appearance of the ground cable.

Figure 2-4 Ground cable



Technical Specifications

Table 2-4 lists the technical specifications of the ground cable.

Table 2-4 Technical specifications of the ground cable

Name	Description
Color	Yellow-green
Cross-section	6 mm ²
Outer diameter	5.1 mm
Working temperature range	–10°C to 70°C

3 Installation

3.1 Installation Preparation

Before you install the eA660, unpack and inspect the equipment delivered to the site and prepare the related tools.

Prerequisites

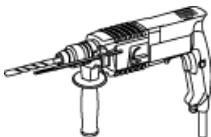
Perform the following operations to inspect the goods delivered to the site:

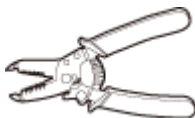
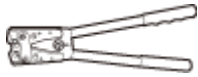
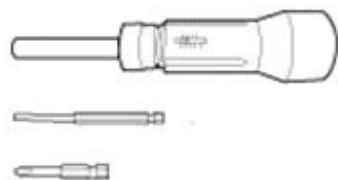
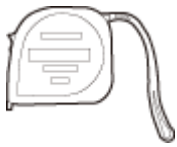
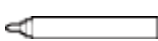
- 1. Unpack the equipment, count the total number of items based on the packing list attached to each packing case, and check whether each packing case is intact.
- 2. Check whether the models and quantities are consistent with those specified on the **Packing List**.
- 3. Record the serial number of the CPE.

Installation Tools

Table 3-1 lists the tools used for installing the eA660.

Table 3-1 Installation tools

 Hammer drill	 ESD gloves	 Vacuum cleaner
 Heat gun	 Phillips screwdriver (M3–M6)	 Flat-head screwdriver (M3–M6)

 Claw hammer	 Utility knife	 Wire stripper
 Power cable crimping tool	 Cable cutter	 Adjustable wrench (open end ≥32 mm)
 Vise	 Hex key (M5,M6)	 Phillips torque screwdriver
 Measuring tape	 Multimeter	 Marker (diameter ≤ 10 mm)

3.2 Installation Procedure

3.2.1 Mounting on a Utility Pole (Without an Angle Adjusting Component)

Prerequisites

The eA660 and mounting components are ready, as shown in [Figure 3-1](#) and [Table 3-2](#).

Figure 3-1 eA660 and mounting components

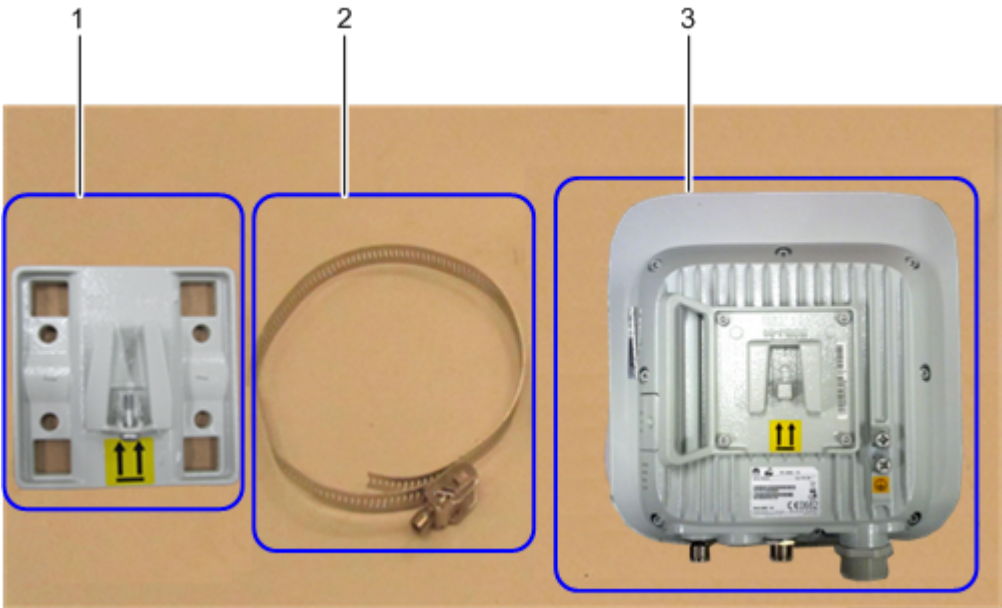


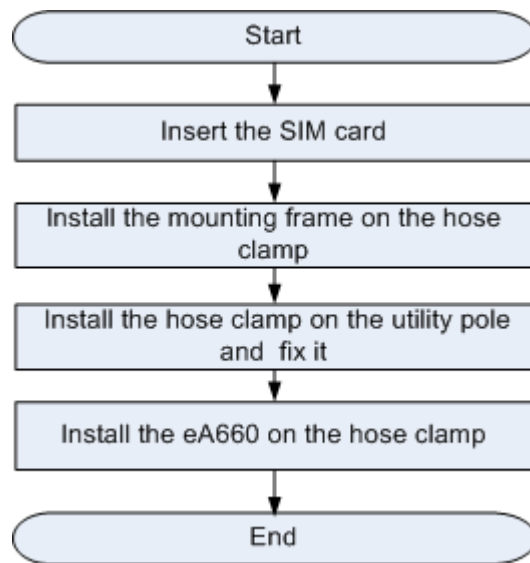
Table 3-2 Mounting components

No.	Name
1	Mounting frame
2	Hose clamp
3	CPE

Context

Figure 3-2 shows the flowchart for mounting the eA660 on a utility pole without an angle adjusting component.

Figure 3-2 Flowchart for mounting the eA660 on a utility pole without an angle adjusting component



Procedure

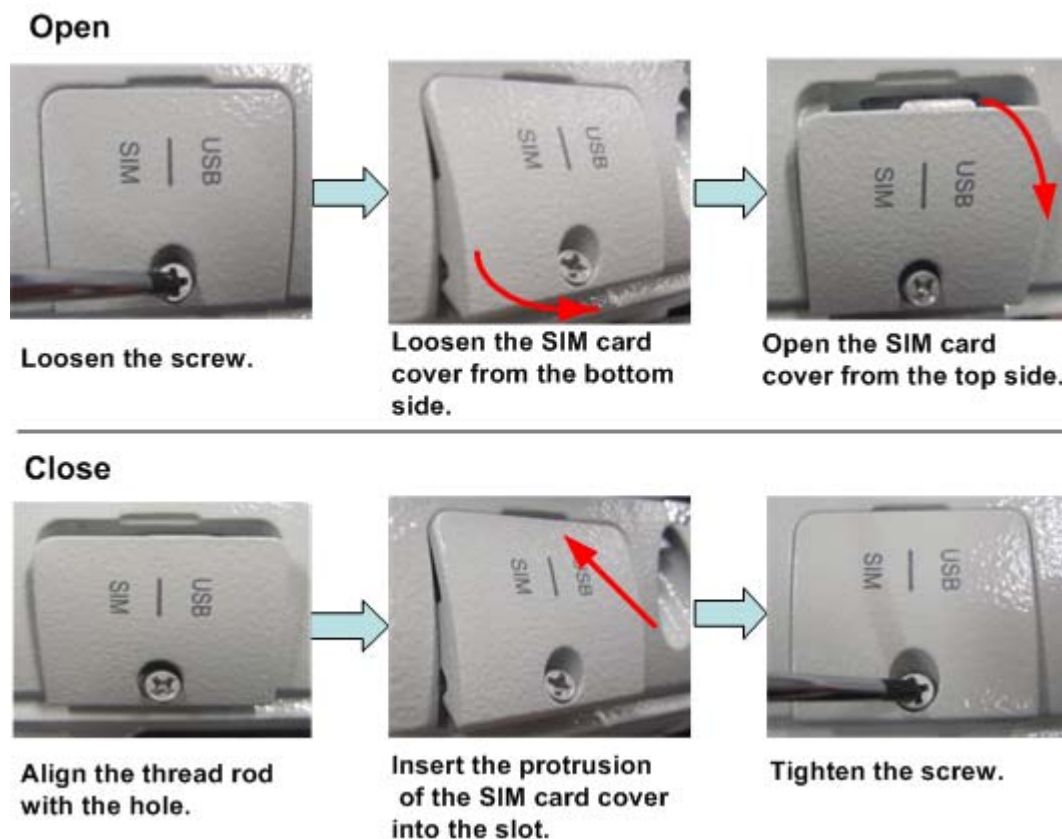
- Step 1** Open the SIM card maintenance window of the eA660 and insert the SIM card, as shown in [Figure 3-3](#).

Figure 3-3 Installing the SIM card



[Figure 3-4](#) shows the correct installation method.

Figure 3-4 Installation method of the SIM card maintenance window



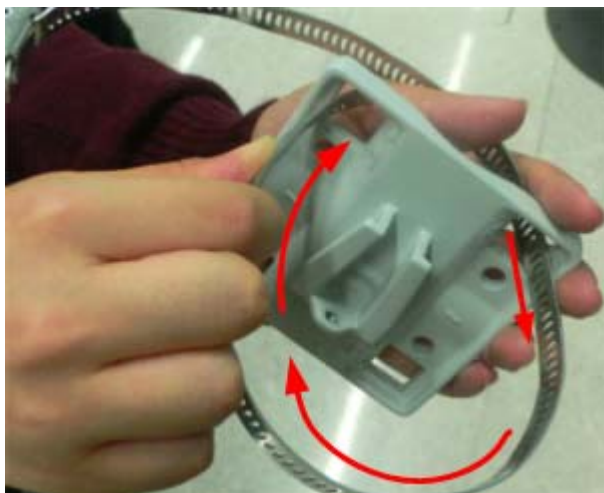
NOTICE

When you install the SIM card maintenance window, insert the protrusion into the caging slot to ensure that the SIM card maintenance window is waterproof. Do not fasten the screws until the SIM card maintenance window has been correctly installed.



Step 2 Insert the hose clamp to the wall-mounting frame, as shown in [Figure 3-5](#).

Figure 3-5 Inserting the hose clamp to the wall-mounting frame



NOTE

Insert the end of the hose clamp that does not contain a screw into the square hole on top of the wall-mounting frame on the back of the unit. When half of the hose clamp passes through the square hole, slightly kink the protruding part and insert it into the other square hole on the front of the unit.

- Step 3** Install the hose clamp with the wall-mounting frame on the utility pole, and use a M6 hex key to rotate the screw on the hose clamp to adjust the length of the hose clamp until it is correctly connected, as shown in [Figure 3-6](#).



NOTICE

If the hose clamp is too long, cut off the extra part. Apply anti-rust oil to the cut in case it gets rusty.

Figure 3-6 Adjusting the length of the hose clamp



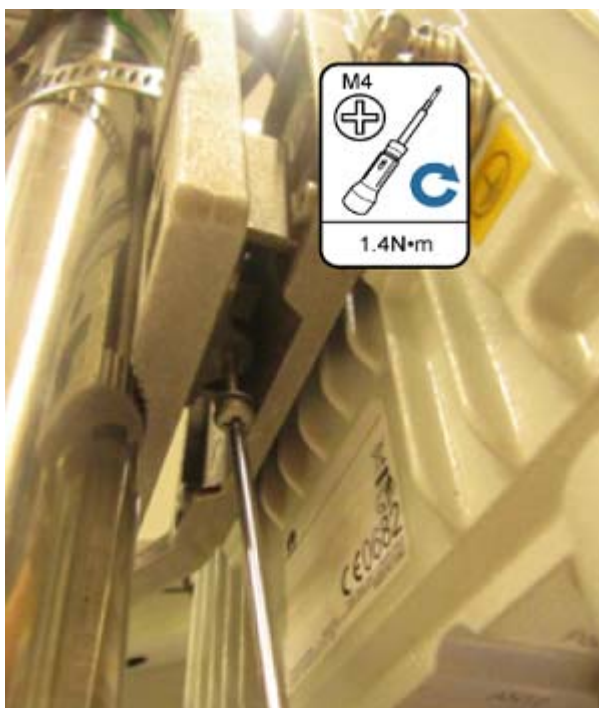
- Step 4** Fix the eA660 on the wall-mounting frame through the dovetail groove, as shown in [Figure 3-7](#).

Figure 3-7 Installing the eA660 on the wall-mounting frame



Step 5 Tighten the wall-mounting frame's screw, as shown in [Figure 3-8](#).

Figure 3-8 Tightening the screw



----End

3.2.2 Mounting on a Utility Pole (with an Angle Adjusting Component)

Prerequisites

The eA660 and mounting components are ready, as shown in [Figure 3-9](#) and [Table 3-3](#).

Figure 3-9 eA660 and mounting components

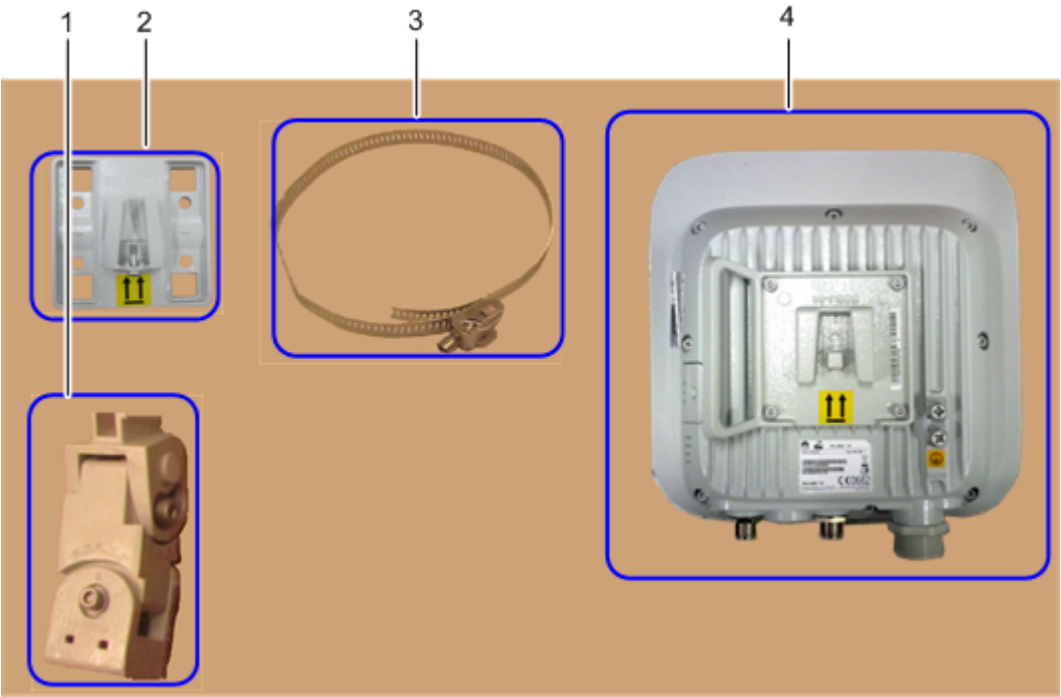


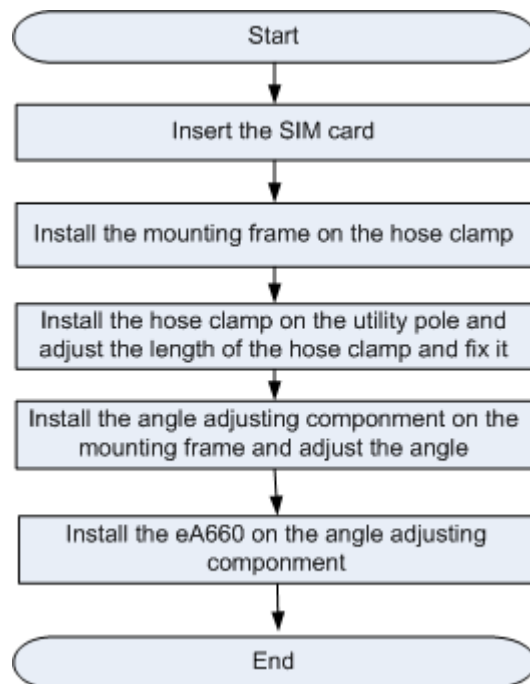
Table 3-3 Mounting components

No.	Name
1	Angle adjusting component
2	Mounting frame
3	Hose clamp
4	CPE

Context

[Figure 3-10](#) shows the flowchart for mounting the eA660 to a utility pole equipped with an angle adjusting component.

Figure 3-10 Flowchart of mounting the eA660 to a utility pole equipped with an angle adjusting component



Procedure

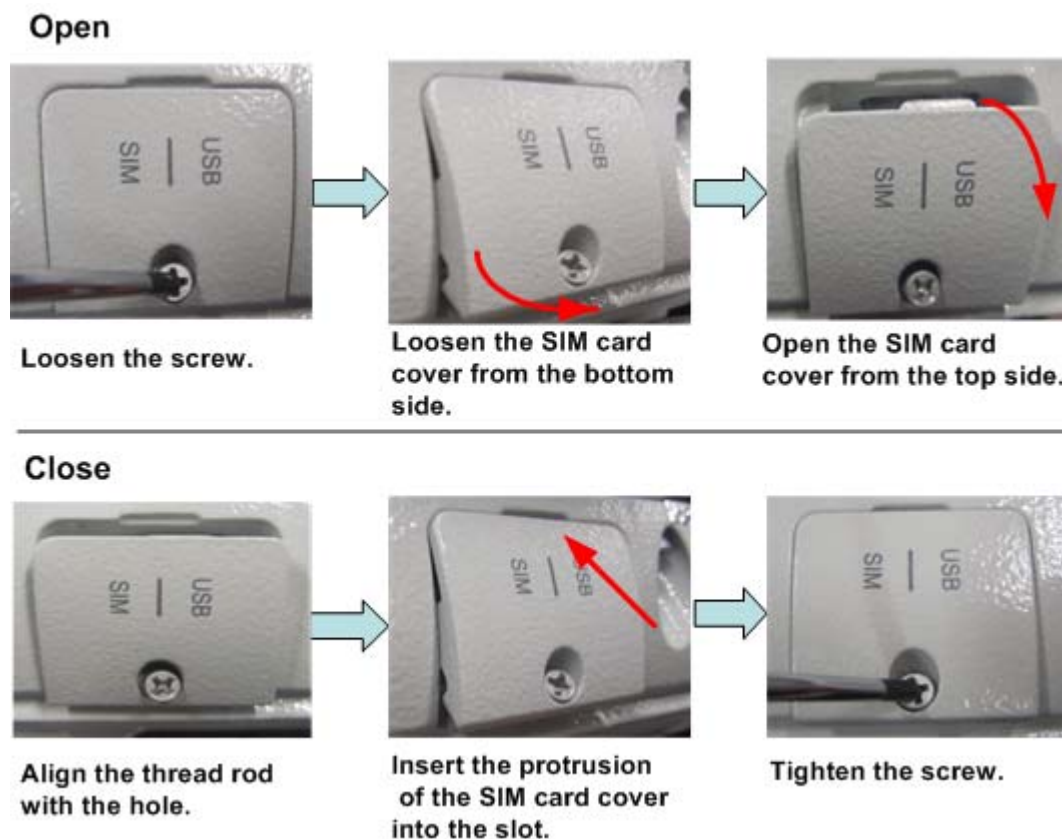
- Step 1** Open the SIM card maintenance window of the eA660 and insert the SIM card, as shown in [Figure 3-11](#).

Figure 3-11 Installing the SIM card



[Figure 3-12](#) shows the correct installation method.

Figure 3-12 Installation method of the SIM card maintenance window



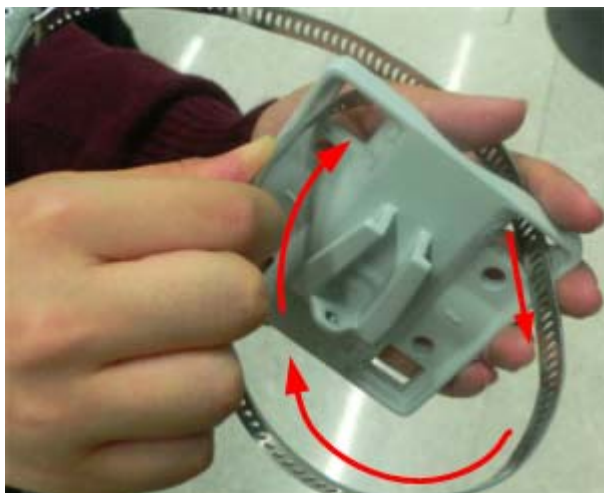
NOTICE

When you install the SIM card maintenance window, insert the protrusion into the caging slot to ensure that the SIM card maintenance window is waterproof. Do not fasten the screws until the SIM card maintenance window has been correctly installed.



Step 2 Insert the hose clamp to the wall-mounting frame, as shown in [Figure 3-13](#).

Figure 3-13 Inserting the hose clamp to the wall-mounting frame



NOTE

Insert the end of the hose clamp that does not contain a screw into the square hole on top of the wall-mounting frame on the back of the unit. When half of the hose clamp passes through the square hole, slightly kink the protruding part and insert it into the other square hole on the front of the unit.

- Step 3** Install the hose clamp with the wall-mounting frame on the utility pole, and use a M6 hex key to rotate the screw on the hose clamp to adjust the length of the hose clamp until it is correctly connected, as shown in [Figure 3-14](#).



NOTICE

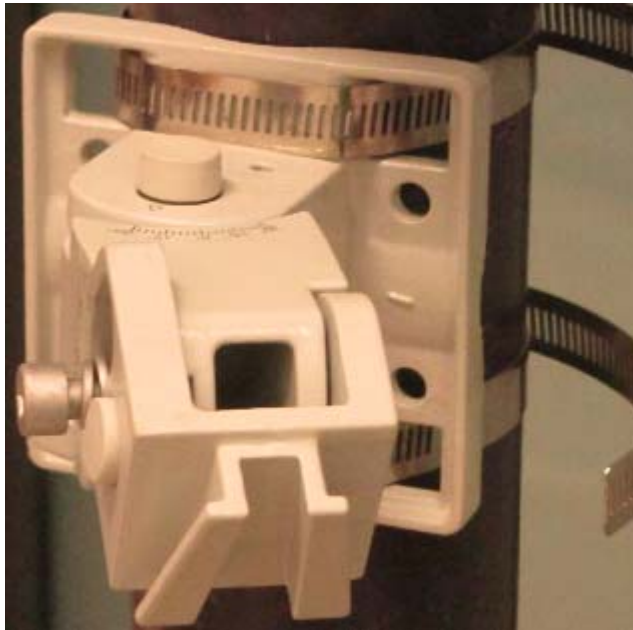
If the hose clamp is too long, cut off the extra part. Apply anti-rust oil to the cut in case it gets rusty.

Figure 3-14 Adjusting the length of the hose clamp



- Step 4** Fix the angel adjusting component onto the mounting frame using the dovetail groove, as shown in [Figure 3-15](#).

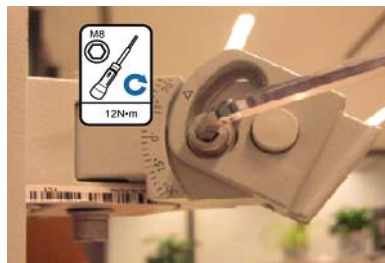
Figure 3-15 Fixing the angle adjusting component onto the mounting frame



 NOTE

- If you correctly install the angle adjusting component, you will hear a loud click.
- Use the M8 hex key to loosen the the hex screws on the left of the angle adjusting component, and adjust the vertical angle by rotating the front end of the angle adjusting component, as shown in [Figure 3-16](#). Then tighten the hex screws.

Figure 3-16 Adjusting the vertical angle



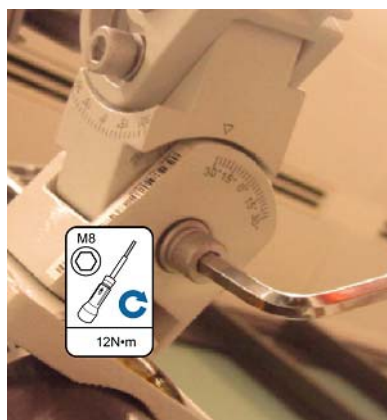
- Use the M8 hex key to loosen the the hex screws on the left of the angle adjusting component, and adjust the vertical angle by rotating the front end of the angle adjusting component, as shown in [Figure 3-17](#). Then tighten the hex screws.



NOTICE

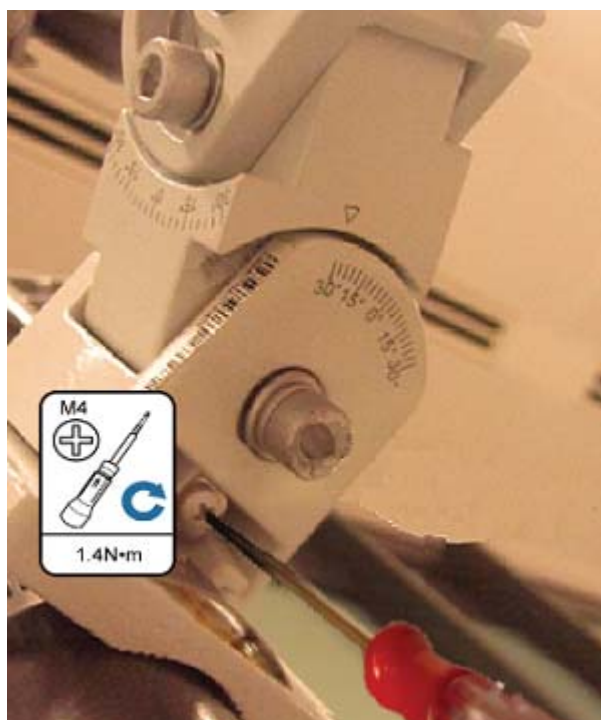
The gears of the horizontal angle adjusting part is tightly fit in. Consequently, the horizontal angle is difficult to adjust. When adjusting the horizontal angle, after you loosen the hex screws, you must lift the front end of the angle adjusting component to separate the gears.

Figure 3-17 Adjusting the horizontal angle



Step 5 Tighten the angle adjusting component's screw, as shown in [Figure 3-18](#).

Figure 3-18 Tightening the screw



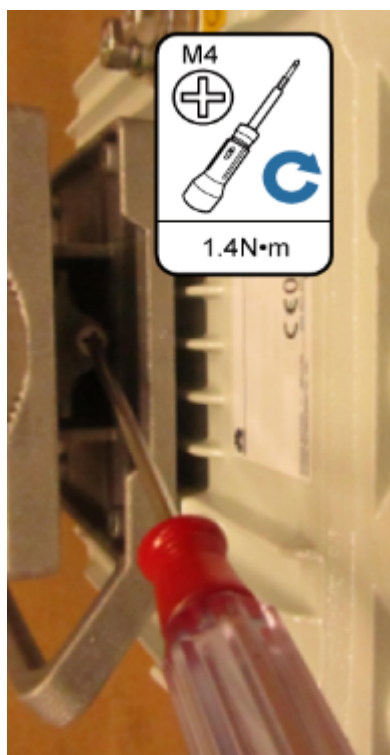
Step 6 Fix the eA660 on the angle adjusting component using the dovetail groove, as shown in [Figure 3-19](#).

Figure 3-19 Installing the eA660 on the angle adjusting component



Step 7 Tighten the wall-mounting frame's screw, as shown in [Figure 3-20](#).

Figure 3-20 Tightening the screw



----End

3.2.3 Mounting on the Wall (Without an Angle Adjusting Component)

Prerequisites

The eA660 and mounting components are ready, as shown in [Figure 3-21](#) and [Table 3-4](#).

Figure 3-21 eA660 and wall-mounting components

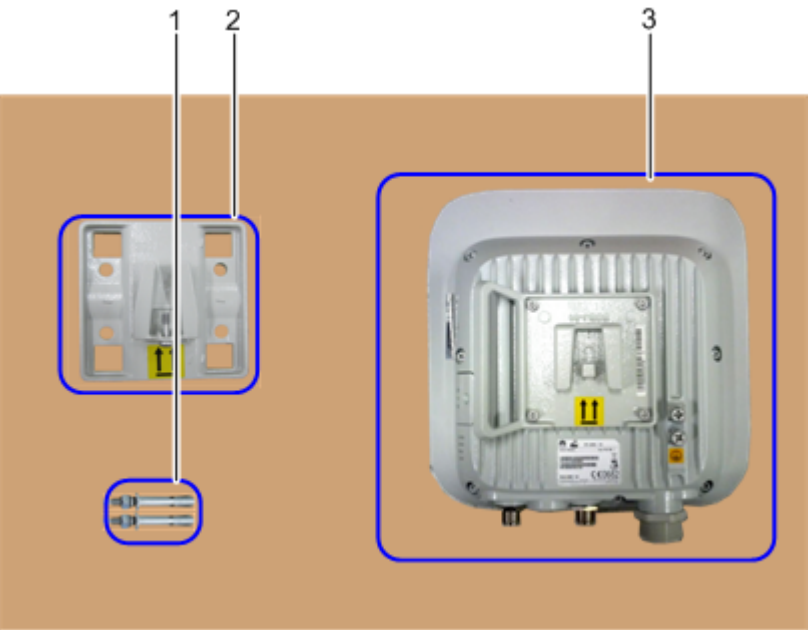


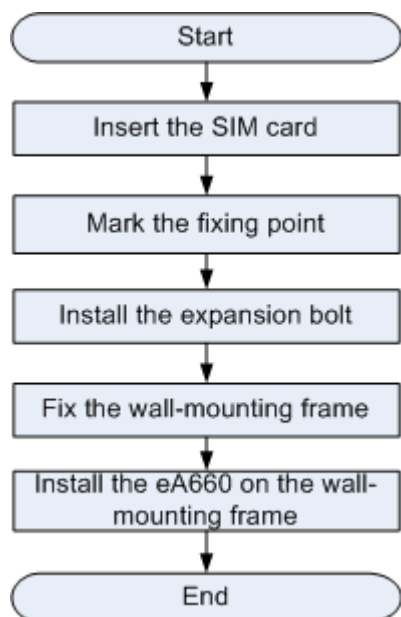
Table 3-4 Wall-mounting components

No.	Name
1	Wall-mounting screw
2	Mounting frame
3	CPE

Context

[Figure 3-22](#) shows the flowchart for mounting the CPE on the wall.

Figure 3-22 Wall-mounting flowchart



Procedure

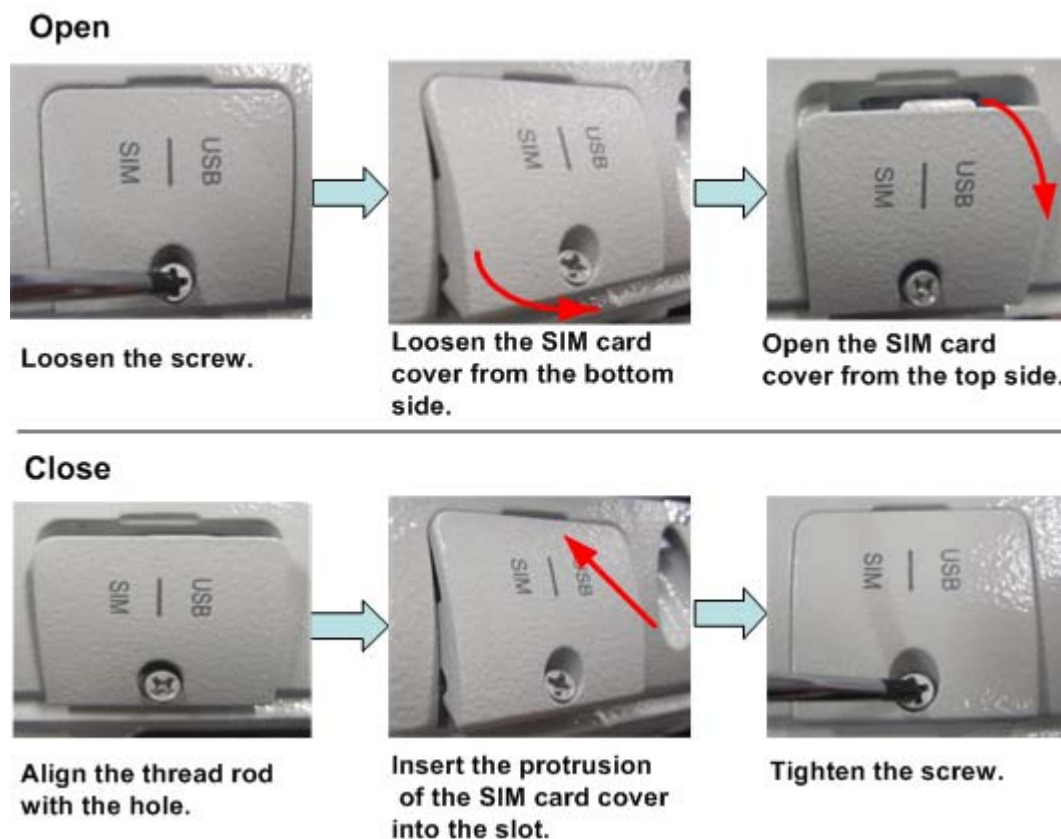
- Step 1** Open the SIM card maintenance window of the eA660 and insert the SIM card, as shown in [Figure 3-23](#).

Figure 3-23 Installing the SIM card



[Figure 3-24](#) shows the correct installation method.

Figure 3-24 Installation method of the SIM card maintenance window



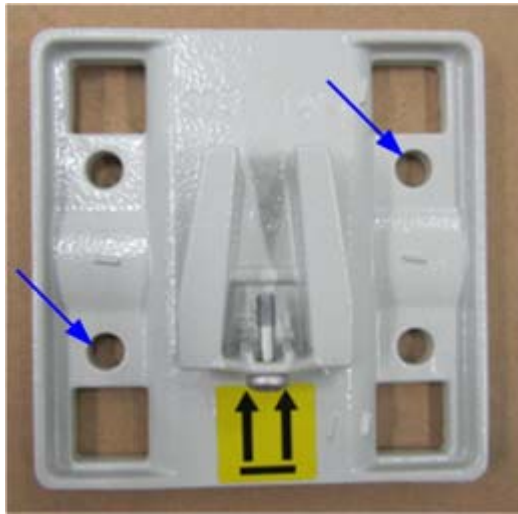
NOTICE

When you install the SIM card maintenance window, insert the protrusion into the caging slot to ensure that the SIM card maintenance window is waterproof. Do not fasten the screws until the SIM card maintenance window has been correctly installed.



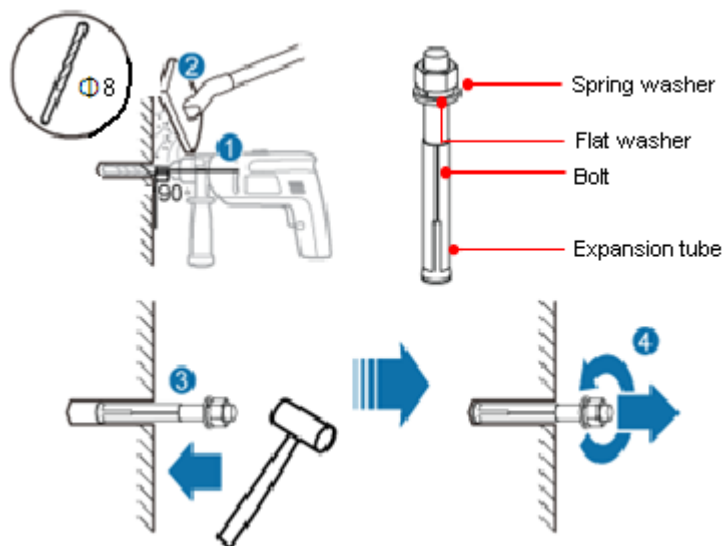
Step 2 Hold the wall-mounting frame tightly against the wall, use a level to adjust the horizontal position, and mark the fixing points with a marker, as shown in [Figure 3-25](#)

Figure 3-25 Marking the fixing points



Step 3 Use a drill with 8 mm drill bit to drill holes in the fixing points. Then remove the dust from the holes and install the expansion bolts, as shown in [Figure 3-26](#).

Figure 3-26 Installing the expansion bolt



Step 4 Align the two fixing points with the bolts on the wall and tighten the expansion bolt's screw nut to fix the wall-mounting frame, as shown in [Figure 3-27](#).

Figure 3-27 Fixing the wall-mounting frame



Step 5 Install the ground cable. For details, see [Step 1 in Cable Connection](#).

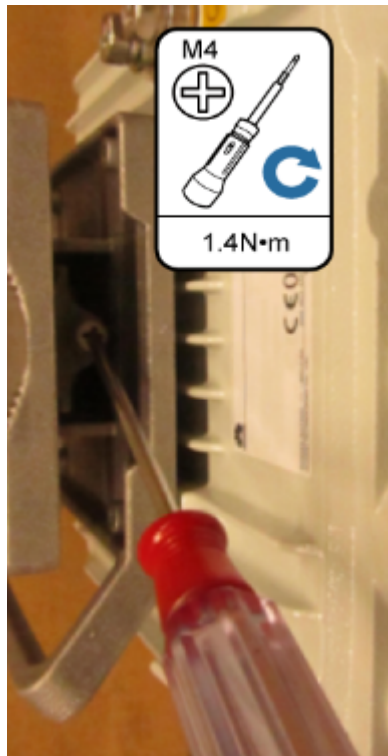
Step 6 Fix eA660 to the wall-mount frame using the dovetail groove, as shown in [Figure 3-28](#).

Figure 3-28 Fixing the CPE



Step 7 Tighten the wall-mounting frame's screw, as shown in [Figure 3-29](#).

Figure 3-29 Tightening the screw



----End

3.2.4 Mounting on the Wall (with an Angle Adjusting Component)

Prerequisites

The eA660 and mounting components are ready, as shown in [Figure 3-30](#) and [Table 3-5](#).

Figure 3-30 eA660 and wall-mounting components

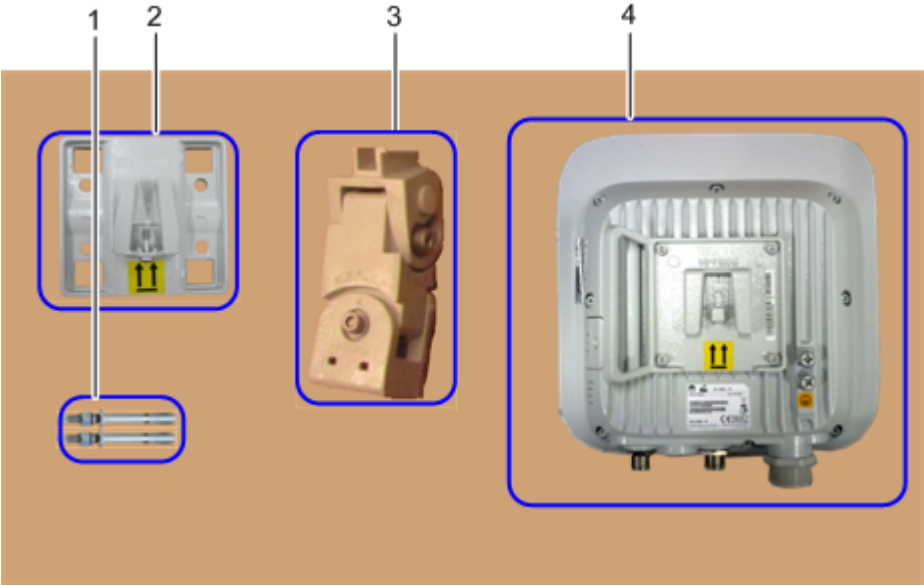


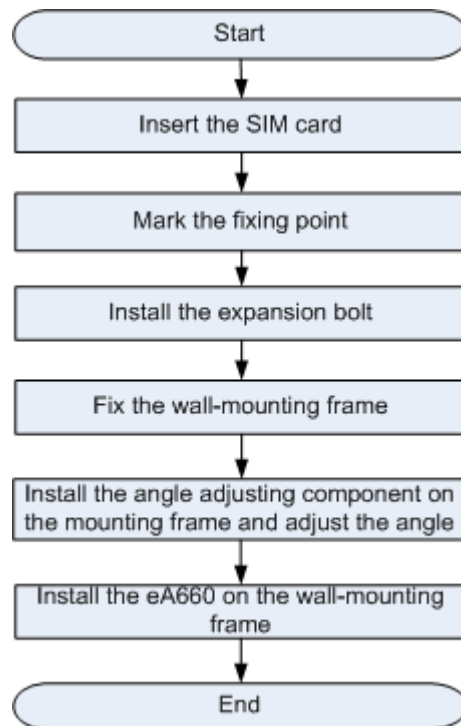
Table 3-5 Wall-mounting components

No.	Name
1	Wall-mounting screw
2	Mounting frame
3	Angle adjusting component
4	CPE

Context

Figure 3-31 shows the flowchart for mounting the CPE on the wall.

Figure 3-31 Wall-mounting flowchart



Procedure

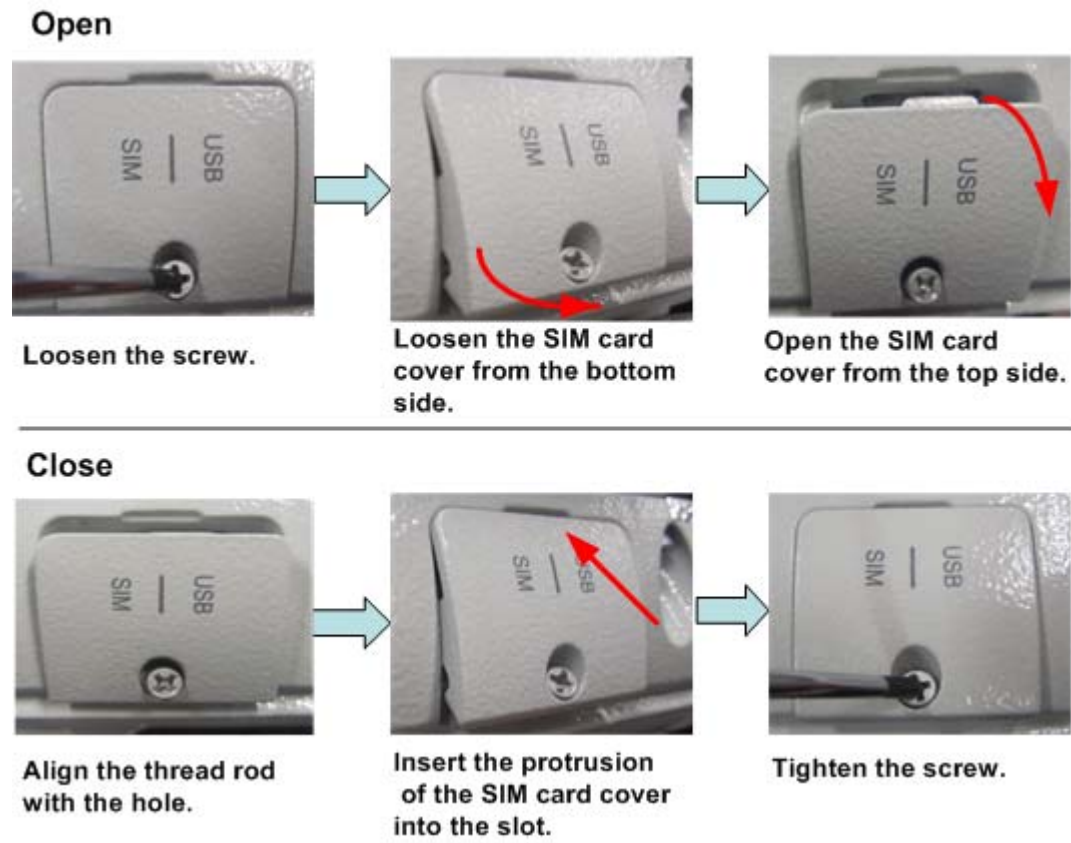
- Step 1** Open the SIM card maintenance window of the eA660 and insert the SIM card, as shown in [Figure 3-32](#).

Figure 3-32 Installing the SIM card



[Figure 3-33](#) shows the correct installation method.

Figure 3-33 Installation method of the SIM card maintenance window



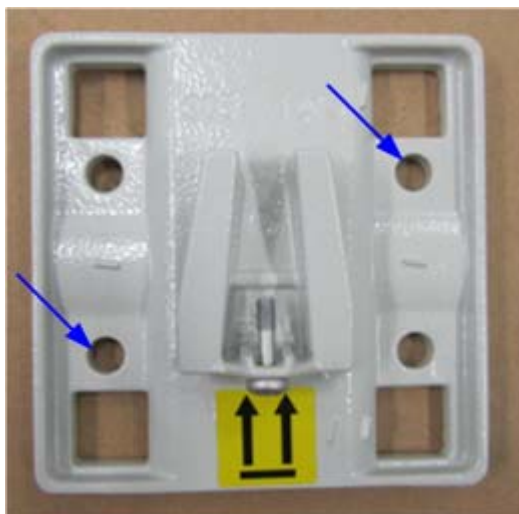
NOTICE

When you install the SIM card maintenance window, insert the protrusion into the caging slot to ensure that the SIM card maintenance window is waterproof. Do not fasten the screws until the SIM card maintenance window has been correctly installed.



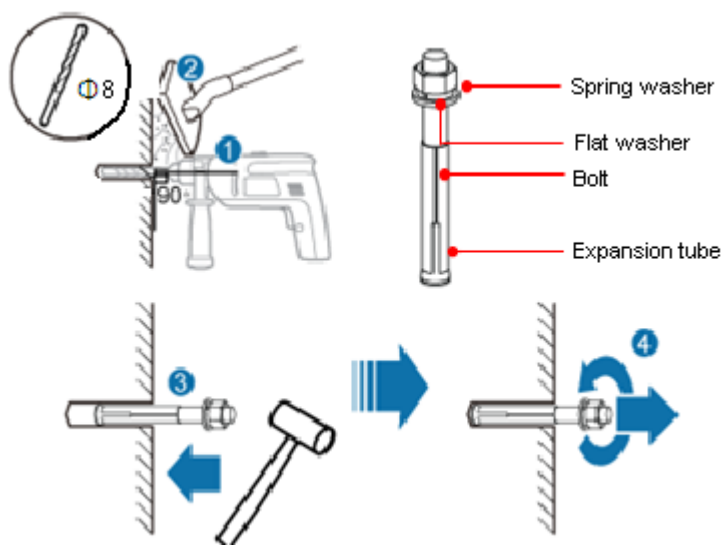
Step 2 Hold the wall-mounting frame tightly against the wall, use a level to adjust the horizontal position, and mark the fixing points with a marker, as shown in [Figure 3-34](#)

Figure 3-34 Marking the fixing points



Step 3 Use a drill with 8 mm drill bit to drill holes in the fixing points. Then remove the dust from the holes and install the expansion bolts, as shown in [Figure 3-35](#).

Figure 3-35 Installing the expansion bolt



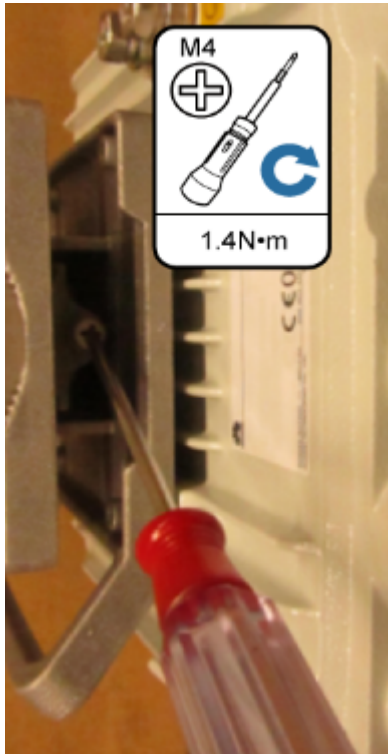
Step 4 Align the two fixing points with the bolts on the wall and tighten the expansion bolt's screw nut to fix the wall-mounting frame, as shown in [Figure 3-36](#).

Figure 3-36 Fixing the wall-mounting frame



- Step 5** Fix the angle adjustment component to the wall-mounting frame using the dovetail groove. For details, see [Step 4 in Mounting on a Utility Pole \(with an Angle Adjusting Component\)](#).
- Step 6** Tighten the angle adjustment component's screw. For details, see [Step 5 in Mounting on a Utility Pole \(with an Angle Adjusting Component\)](#).
- Step 7** Fix the eA660 to the wall-mounting frame using the dovetail groove. For details, see [Step 6 in Mounting on a Utility Pole \(with an Angle Adjusting Component\)](#).
- Step 8** Tighten the wall-mounting frame's screw, as shown in [Figure 3-37](#).

Figure 3-37 Tightening the screw



----End

3.2.5 Cable Connection

This section describes the procedure for connecting the eA660 cables.

Procedure

Step 1 Connect the ground cable, as shown in [Figure 3-38](#).

Figure 3-38 Connecting the ground cable

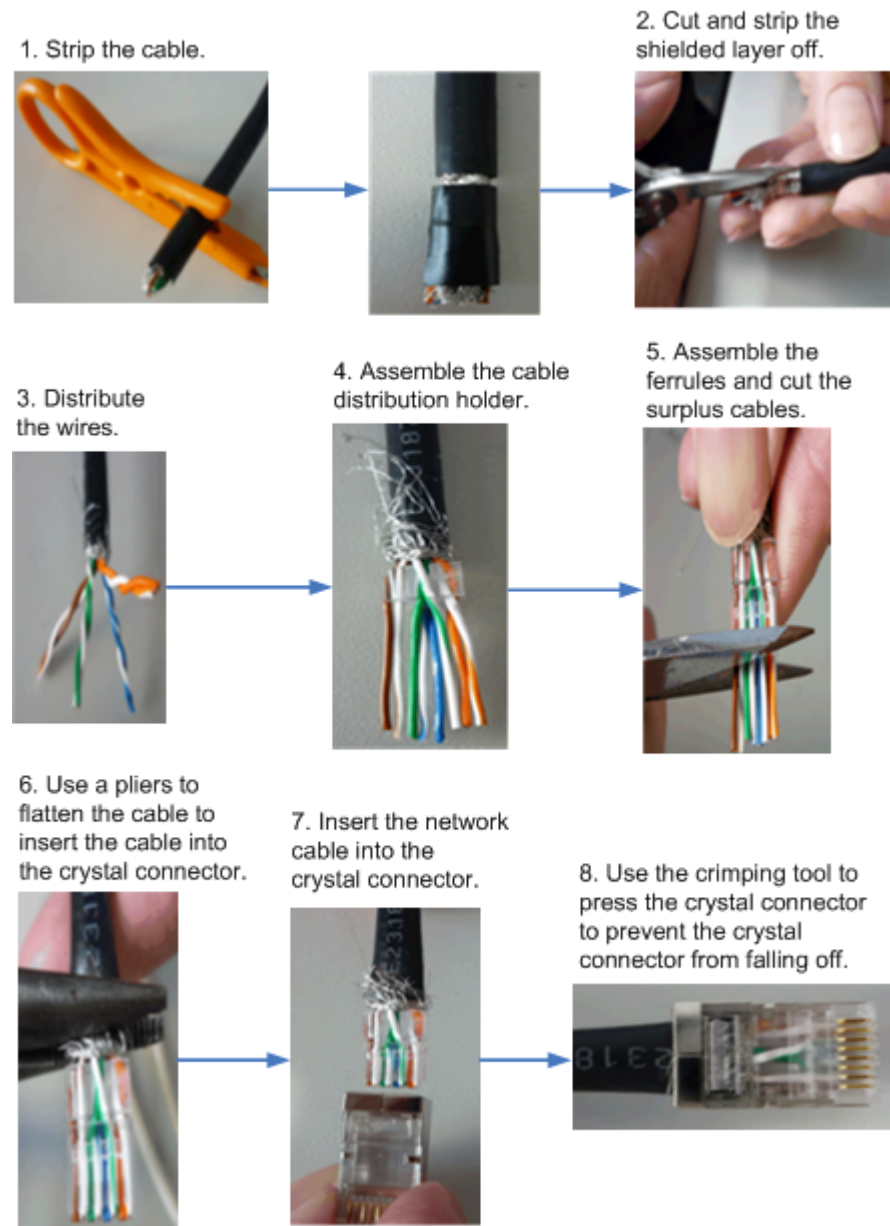


NOTE

Tighten the ground screws and apply antirust paint to it.

Step 2 Install the crystal connector to PoE network cable, as shown in [Figure 3-39](#).

Figure 3-39 Install crystal connector



NOTE

When making PoE network cables, follow the international standard EIA/TIA568A or EIA/TIA568B to arrange the cables. Make sure that the two ends of each network cable use the same standard.

Step 3 Connect the PoE network cable.

1. Disassemble the PG-head screw cap and air-proof block on the PoE port, and pass the network cable through them, as shown in [Figure 3-40](#).

Figure 3-40 Passing the network cable through the PG-head screw cap and air-proof block



2. Connect the network cable to the network adapter, and manually rotate the screw cap to ensure that the lock block adheres to the network cable, as shown in [Figure 3-41](#).

Figure 3-41 Installing the PG-head screw cap and air-proof block



Step 4 Connect the PoE adapter.

Connect one end of the PoE network cable to the adapter, as shown in [Figure 3-42](#).

Figure 3-42 Connecting the PoE adapter



1. DATA port: connects to the computer network cable.	2. PoE port: connects to the PoE network cable.
---	---

----End

3.3 Installation Check

After you install the eA660, perform a hardware installation check and a power-on check.

Prerequisites

The eA660 hardware has been installed.

Procedure

Step 1 Check whether the eA660 hardware is correctly installed.

When performing the hardware check for the eA660, check the items listed in [Table 3-6](#) in order.

Table 3-6 Hardware installation check of the eA660

No.	Check Item
1	The installation position must strictly comply with the design drawings, meet the installation space requirements, and reserve space

No.	Check Item
	for maintenance.
2	When the eA660 is mounted on a metal utility pole, the fixture must be firmly installed, and the CPE must be attached.
3	When the eA660 is mounted on the wall, the installation hole on the fixture must be aligned with the one on the expansion bolt. In addition, the fixture must be tightly and firmly attached to the wall and must not wobble when you shake it.

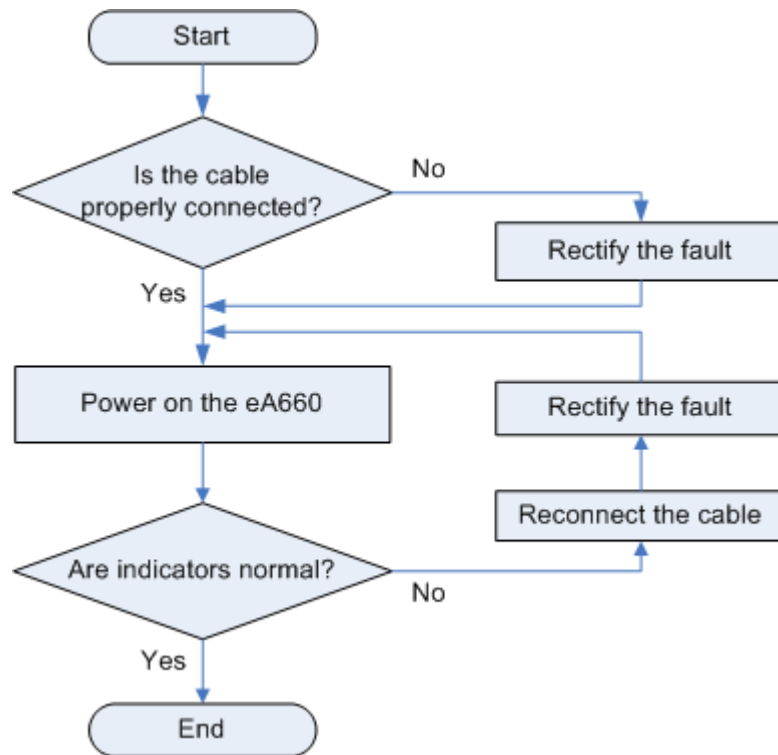
When checking the cable connections of the eA660, check the items listed in [Table 3-7](#) in order.

Table 3-7 Cable connection check of the eA660

No.	Check Item
1	No cable is short-circuited or inversely connected.
2	The bare wires and lugs of the connecting terminal must be tightly wrapped with insulation tapes. Cooper wires must not be exposed.
3	Power cables or PGND cables with connectors are not used.
4	The connector of the PoE network cable must be appropriately connected.

Step 2 Perform the power-on check, as shown in [Figure 3-43](#).

Figure 3-43 Power-on check of the eA660



The items listed in [Table 3-8](#) must be checked during eA660 indicator check.

Table 3-8 Indicator check

No.	Check Item
1	When the eA660 powers on, the POWER indicator is on.
2	When the eA660 powers on, the RSSI indicator is steady on or blinks.

NOTE

If the RSSI indicator is off when the eA660 powers on, the signal strength is too weak. Check the power supply and the angle of the angle adjusting component. For details about the indicator status, see [Table 2-2](#).

----End

4 Configuring the eA660

The Web management page of the eA660 is based on the network browser. It allows you to use the browser to easily set, configure, and manage devices.

Prerequisites

- The deployment on the network side is complete. The computer has been connected to the eA660.
- The installation of the eA660 is complete.
- The eA660 starts correctly based on default parameters during power-on.

Procedure

Step 1 Start the IE browser, enter **http://192.168.1.1** in the address bar, and press **Enter**. Connect the eA660 from the near end using the Web management page.



NOTE

Use Internet Explorer 7 (IE7) or later versions.

Step 2 Log in to the web management page with **User name** set to default value **admin** and **Password** set to default value **4GCPE@hw**.

Step 3 Choose **System > Password Modification** to modify the **New Password**.



NOTE

Use the default values of other parameters. To change the default settings, contact technical support engineers for help.

----**End**

5 Maintenance

5.1 Maintenance Preparation

Before performing site maintenance for the eA660, learn about the site information, select required maintenance items, and prepare related tools.

Learning About the Site Information

Gather the following site information before going to the eA660 site to perform maintenance.

- Persisting faults and alarms
- Hardware configuration
- Natural environment

Selecting Maintenance Items

Select suitable maintenance items based on the eA660 site conditions.

Maintenance items must include the following aspects:

- Natural environment of the eA660 site
- Power and grounding systems of the eA660
- eA660

5.2 Fault Diagnosis

When the CPE does not run properly, use the tools on the Web management page to perform initial diagnosis.

Prerequisites

- The network deployment is complete.
- The installation of the eA660 is complete.
- The eA660 starts appropriately based on default parameters after power-on.

Procedure

- When the CPE fails to access the Internet, run the **Ping** functions to quickly check the network connection status.
1. Start the IE browser, enter **http://192.168.1.1** in the address bar, and press **Enter**. Log in to the Web management page, and enter **User name** and **Password**.



NOTE

Use Internet Explorer 7 (IE7) or later versions.

2. Choose **System > Diagnosis** to display the **Diagnosis** page.
3. Set **Method** to **Ping**.
4. Enter the domain name in the **Destination IP address or domain** box.
5. Set **Packet size** and **Timeout** and select the **Enable** check box behind **Do not Fragment**.
6. Click **Ping**.
7. Wait until the operation is performed. The command output is displayed in the **Result** box.



NOTE

Packet Length indicates the bytes of a sent packet, and ranges from 1 to 9,000 bytes.

Timeout indicates the timeout period of each reply, and ranges from 1 to 10 seconds.

- When the CPE does not run properly, the **System Check** can be used to preliminarily identify the problem.
1. Start the IE browser, enter **http://192.168.1.1** in the address bar, and press **Enter**. Then enter the correct password and click **Log In**.



NOTE

Use Internet Explorer 7 (IE7) or later versions.

2. Click **System > Diagnosis** to display the **Diagnose** page.
3. Set **Method** to **System Check**.
4. Click **Check**.
5. Wait until the system check is performed. The possible causes will be displayed on the page.
6. Click **Export** to export the detailed information to the computer. If necessary, send the detailed information to maintenance personnel.

----End