

The background features a series of overlapping, curved lines in various shades of blue, creating a sense of motion and depth. The lines are most dense on the left side and become more sparse towards the right.

Quick Start Guide

AR-Sc&AR-Se&AR-Sa
&AR-So Series Elevator Gateways

01 (2017-07-15) Part number: 31508106



Packing List

- Router (1, with product model on the nameplate)
- Installation accessories:
 - LTE remote antenna (1)
 - Quick Start Guide (1)



Note The types and quantities of items in the installation accessory package vary depending on the router configuration.

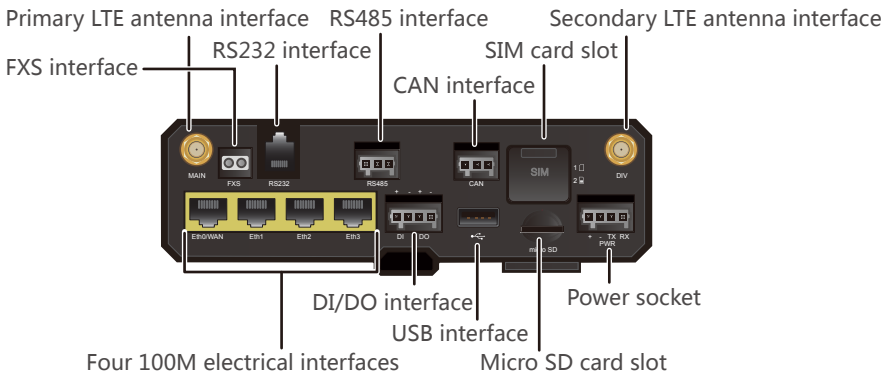


Appearance



- Note**
- The AR-Sc-Lc-BC, AR-SC-U-BC, AR-Se-U-BC, AR-Se-L-BC, AR-Sa-U-BC, and AR-Sa-La-BC routers are the same in appearance and indicators and only differ in nameplates. AR-Sc-Lc-BC is used as an example here.
 - The AR-Sc-Lc-MC, AR-Se-L-MC, and AR-Sa-La-MC routers are the same in appearance and indicators and only differ in nameplates. AR-Sc-Lc-MC is used as an example here.
 - The AR-Sc-MC and AR-Se-MC routers are the same in appearance and indicators and only differ in nameplates. AR-Sc-MC is used as an example here.

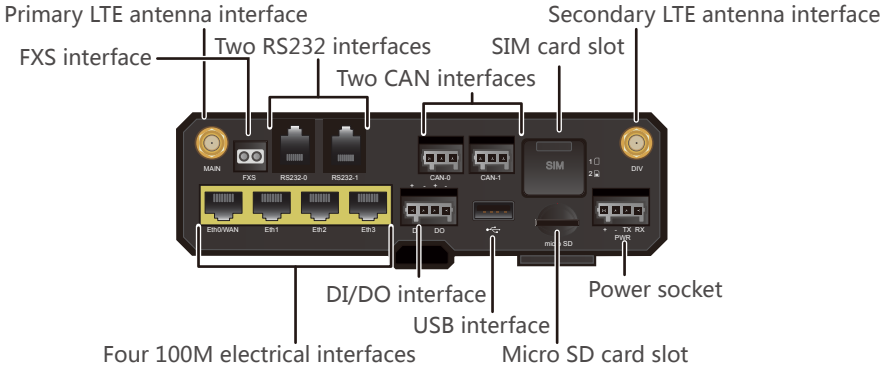
■ AR-Sc-Lc-BC (front view)



■ AR-Sc-Lc-BC (rear view)



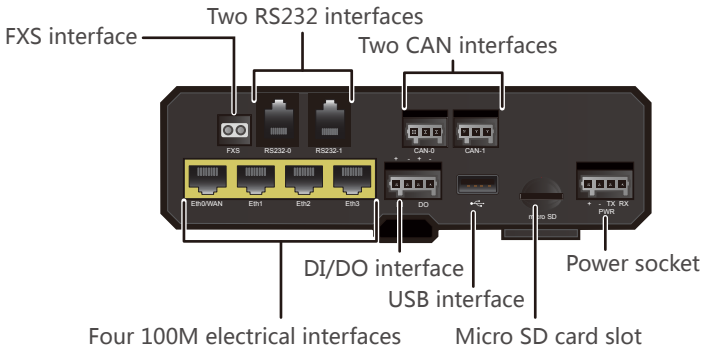
■ AR-Sc-Lc-MC (front view)



■ AR-Sc-Lc-MC (rear view)



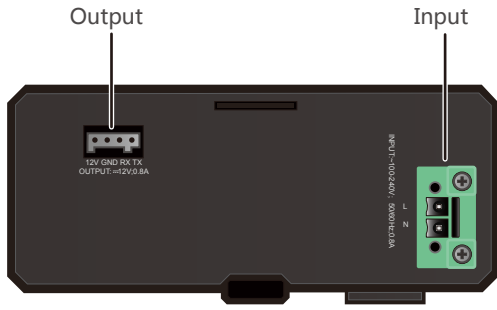
■ AR-Sc-MC (front view)



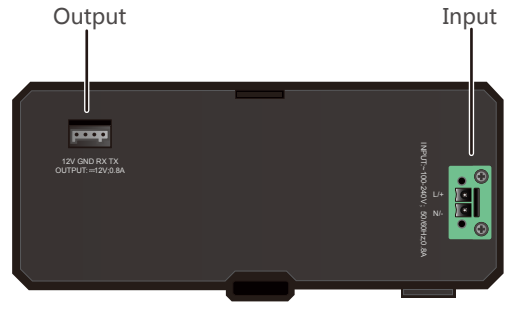
■ AR-Sc-MC (rear view)



■ AR-PM1 (front view)



■ AR-PM4 (front view)



■ AR-PM1 (rear view)

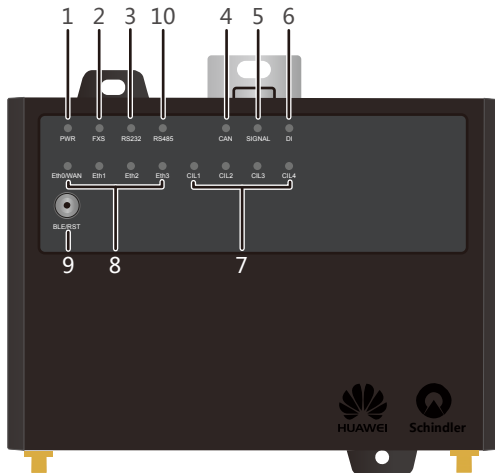


■ AR-PM4 (rear view)

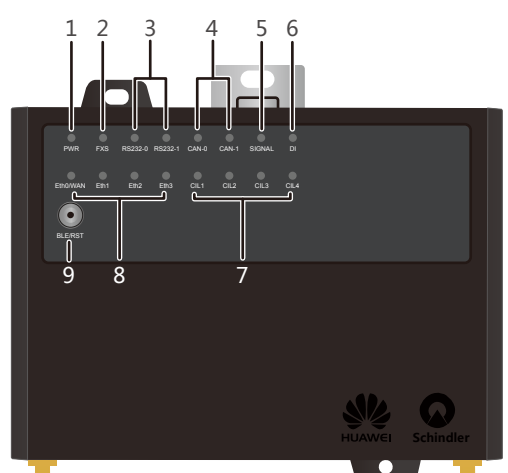


💡 Indicator Description

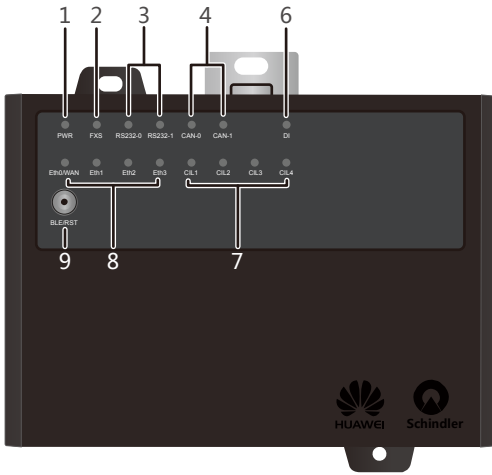
■ Indicators of AR-Sc-Lc-BC



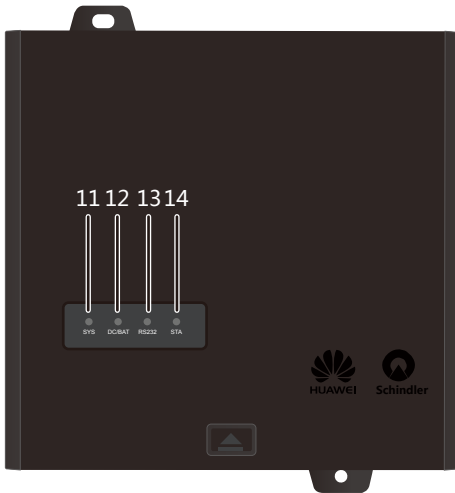
■ Indicators of AR-Sc-Lc-MC



■ Indicators of AR-Sc-MC



■ Indicators of AR-PM1



■ Indicators of AR-PM4



Number	Indicator	Description																				
1	PWR	Steady green: The power supply to the router is normal. Off: The router receives no power supply.																				
2	FXS	Steady green: The FXS channel is idle. Blinking green: There is an ongoing call on the FXS channel. Off: The FXS channel is occupied.																				
3	RS232	Indicator states can be user defined.																				
4	CAN	Indicator states can be user defined.																				
5	SIGNAL	Indicator states can be user defined.																				
6	DI	Indicator states can be user defined.																				
7	CIL (CIL1 ~ CIL4)	Indicator states can be user defined.																				
8	Eth (Eth0/WAN ~ Eth3)	Steady green: A link has been established on the corresponding interface. Blinking green: Data is being transmitted on the corresponding link. Of: No link is established on the corresponding interface.																				
9	BLE/RST	<table border="0"> <thead> <tr> <th></th> <th>CL1</th> <th>CL2</th> <th>CL3</th> <th>CL4</th> </tr> </thead> <tbody> <tr> <td>Press once to enable Bluetooth</td> <td>Fast blink</td> <td>Fast blink</td> <td>Fast blink</td> <td>Steady on</td> </tr> <tr> <td>Press twice to reset the router</td> <td>Fast blink</td> <td>Fast blink</td> <td>Steady on</td> <td>Steady on</td> </tr> <tr> <td>Press 3 times to restore factory settings</td> <td>Fast blink</td> <td>Steady on</td> <td>Steady on</td> <td>Steady on</td> </tr> </tbody> </table>		CL1	CL2	CL3	CL4	Press once to enable Bluetooth	Fast blink	Fast blink	Fast blink	Steady on	Press twice to reset the router	Fast blink	Fast blink	Steady on	Steady on	Press 3 times to restore factory settings	Fast blink	Steady on	Steady on	Steady on
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10	RS485	Indicator states can be user defined.																				
11	SYS	Steady green: The UPS is starting. Blinking green: The UPS has started successfully. Off: The UPS has not started.																				
12	DC/BAT	Steady green: The power module of the router is working. Blinking green: The UPS is working. Off: The UPS is not working.																				
13	RS232	Steady green: The router is connected to the UPS. Off: The router is not connected to the UPS.																				
14	STA	Steady green: The battery of the UPS is working normally. Fast blinking green: The batter of the UPS can provide power supply for less than 1 hour (4 hours). Slow blinking green: The battery of the UPS has failed or run out of power. Off: The UPS is not working.																				



Installing the Router



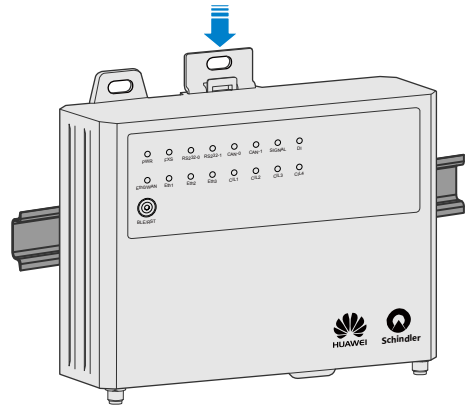
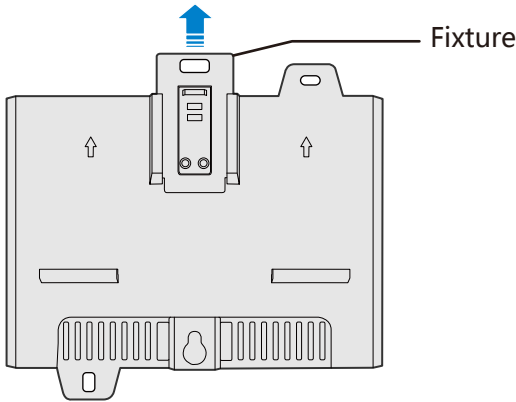
- Note**
- The methods for installing, connecting and logging in to the AR-Sc, AR-Se, AR-Sa, AR-So series routers and AR-PM series UPS are similar. AR-Sc-Lc-MC is used as an example here.
 - AR-PM series UPS cannot be mounted on a Wall.

Scenario 1: Installing the Router on a DIN Rail

Before the installation, ensure the following:

- Sufficient space has been reserved for the router.
- The DIN rail has been fixed.

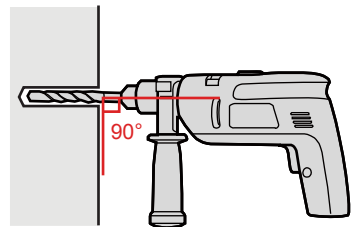
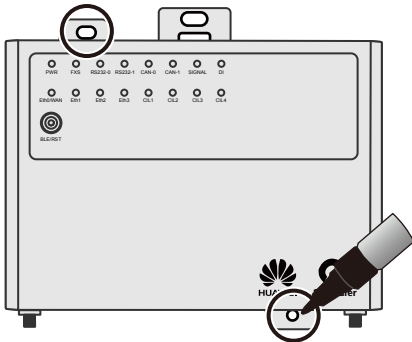
- Pull the fixture on the DIN rail mounting kit at the back of the router.
- Place the DIN rail mounting kit onto the DIN rail and press the fixture to secure the router on the DIN rail.



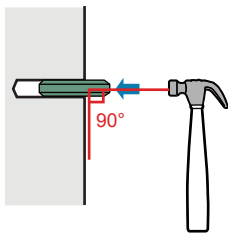
Scenario 2: Mounting the Router on a Wall

Installation Method 1

- Mark the positions of two mounting holes on the wall.
- Drill holes for ST4.2 tapping screws on the wall using a hammer drill with an appropriate drill bit.



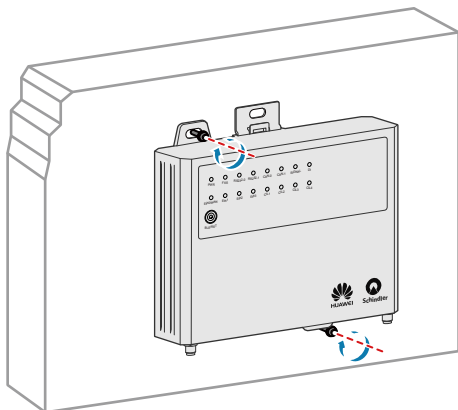
- 3 Hammer hollow wall anchors into the mounting holes.



- 4 Hold the bottom of the router and fix it on the wall with two ST4.2 tapping screws.

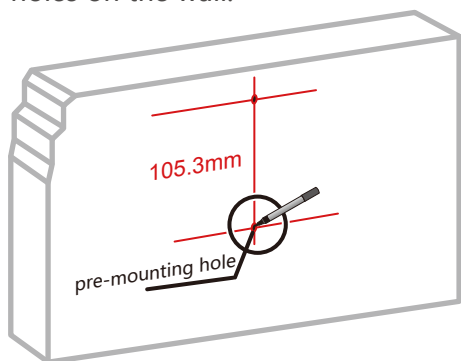


Note The torque for an ST4.2 screw is 0.8 N·m.

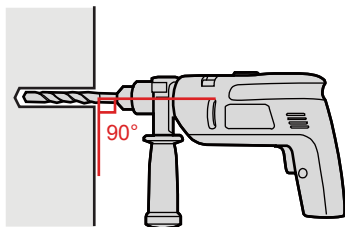


Installation Method 2

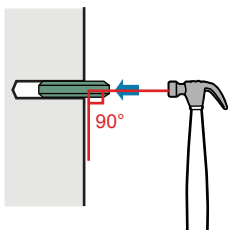
- 1 Mark the positions of two mounting holes on the wall.



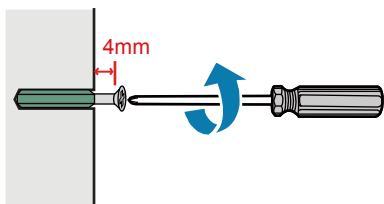
- 2 Drill holes for ST4.2 tapping screws on the wall using a hammer drill with an appropriate drill bit.



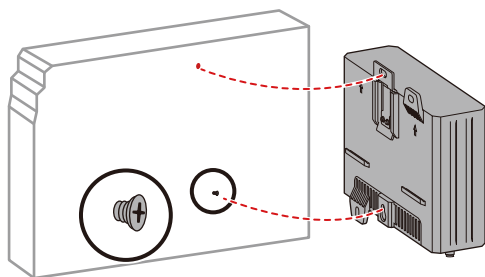
- 3 Hammer hollow wall anchors into the mounting holes.



- 4 Use a Phillips screwdriver to screw an ST4.2 tapping screw into the pre-mounting hole. Leave 4 mm length of the screw out of the wall.

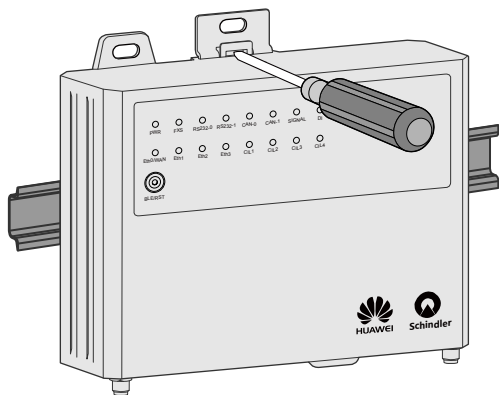


- 5 Hang the router on the tapping screw through the pre-mounting hole at the back. Hold the bottom of the router and use another ST4.2 tapping screw to secure the router on the wall.



Removing the Router from the DIN Rail

- 1 Use a flat-head screwdriver to press the metal plate on the DIN rail mounting kit, remove the fixture, and then remove the router from the DIN rail.

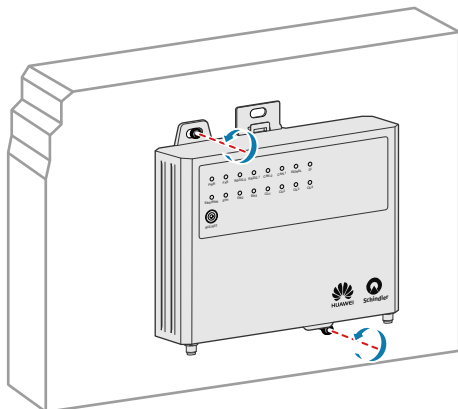


Removing the Router from the Wall



Note The router is removed in the same way regardless of whether it has been installed using method 1 or 2. In this example, the router is installed using method 1.

- 1 Hold the bottom of the router, use a Phillips screwdriver to loosen the tapping screws, and then remove the router from the wall.





Connecting the Router



WARNING

- To avoid electric shock, do not connect power cables while the power is on.
- Do not power on the router before you finish connecting and arranging cables.



Note

- An LTE remote antenna is delivered with the router. Connect it to the LTE MAIN interface of the router.
- For other interfaces, make cables onsite using self-provided terminals. The following tables provide pin assignments of different interfaces.
- The FXS interface cannot connect to a PSTN network and is only used for internal.

■ Power socket pin assignments



1 4

Pin	Signal Type
1	+
2	-
3	TX
4	RX

■ USB interface pin assignments



1 4

Pin	Signal Type
1	VBUS
2	D-
3	D+
4	GND

■ FXS interface pin assignments



1 2

Pin	Signal Type
1	a
2	b

■ RS485 interface pin assignments



1 3

Pin	Signal Type
1	RS485 a
2	RS485 b
3	C_GND

■ CAN interface pin assignments



1 3

Pin	Signal Type
1	CAN_L
2	CAN_H
3	NC

■ DI/DO interface pin assignments



1 4

Pin	Signal Type
1	DI+
2	DI-
3	DO+
4	DO-

■ RS232 interface pin assignments



1 6

Pin	Signal Type
1	COM
2	RX
3	TX
4	NC
5	RTS
6	CTS

■ Eth interface pin assignments



1 8

Pin	Signal Type
1	TX+
2	TX-
3	RX+
4	NC
5	NC
6	RX-
7	NC
8	NC

■ Connecting the Router to a UPS



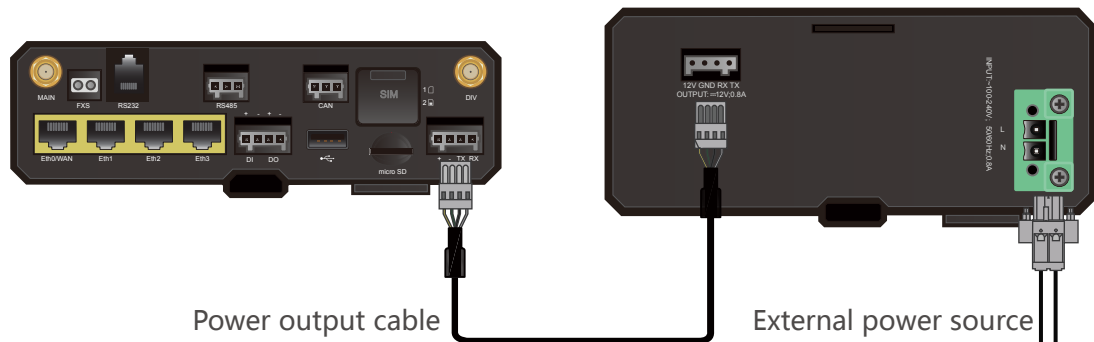
Note

- The AR-Sc and AR-Se series routers support AR-PM1 UPS power supplies.
- The AR-Se-MC, AR-So and AR-Sa series routers support AR-PM4 UPS power supplies.
- The routers are connected to a UPS in the same way. The following example connects an AR-Sc-Lc-BC router to an AR-PM1 UPS.

Power output cable: delivered with the UPS.

Power input cable: made onsite using the 2-pin terminal block delivered with the UPS.

The diameter of the cable must be 16-22 AWG.



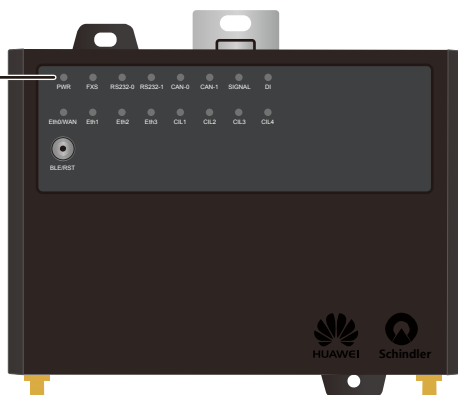
Power output cable

External power source

↑ Powering On the Router

- 1 Before you power on the router, ensure the following:
 - The power cable has been properly connected.
 - The input voltage is within the normal range (12 V DC to 24 V DC).
- 2 Turn on the power switch of the external power supply system.
- 3 Check the PWR indicator on the front panel of the router.

PWR Steady green: The system power supply is normal.



⚙ Declaration of Conformity

Hereby, Huawei Technologies Co., Ltd. declares that the radio equipment type is in compliance with Directive 2014/53/EU.

The full text of the EU declaration of conformity is available at the following internet address: www.huawei.com/en/product-certification.