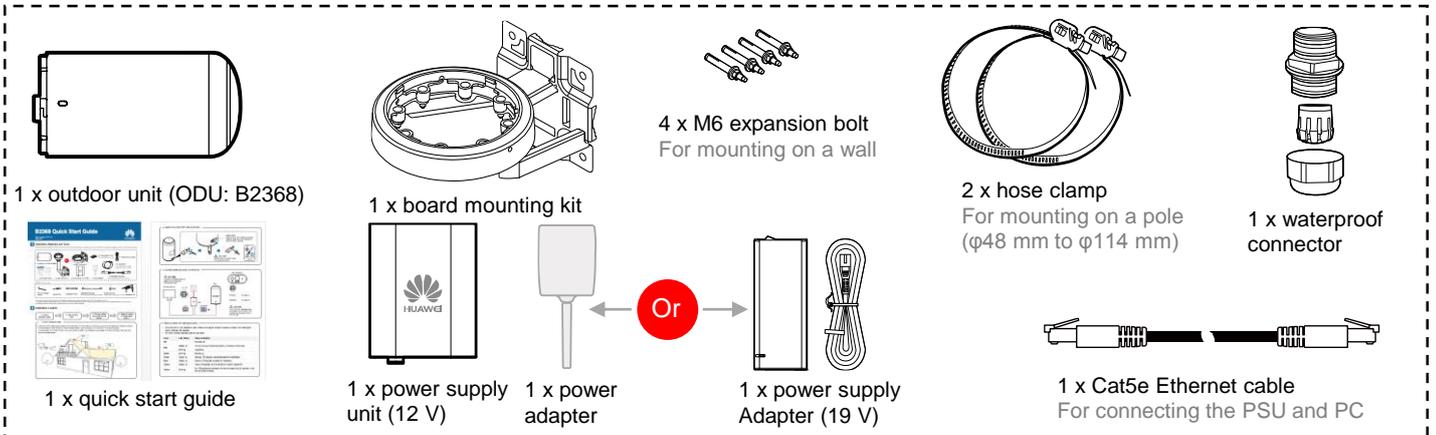# B2368 Quick Start Guide

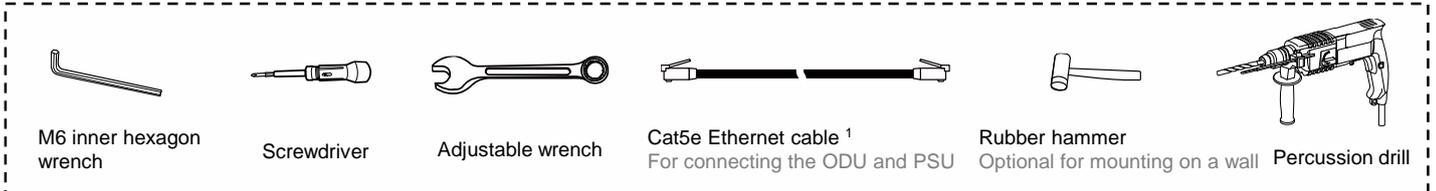Part Number: 31071141
Issue: 05

HUAWEI

1 Installation Materials and Tools

Packing list: Before installing the CPE, verify that you have all the items listed in the packing list. If any of the items is missing or damaged, contact your LTE device provider.
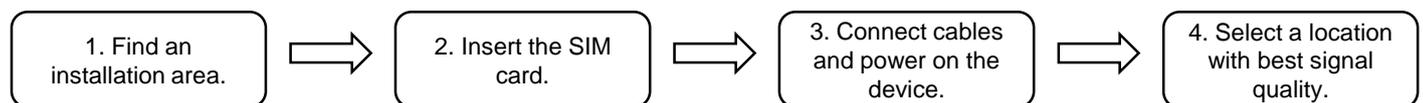
1 x outdoor unit (ODU: B2368)

1 x board mounting kit

4 x M6 expansion bolt
For mounting on a wall

2 x hose clamp
For mounting on a pole
(φ48 mm to φ114 mm)

1 x waterproof connector

1 x quick start guide

1 x power supply unit (12 V)

1 x power adapter

Or

1 x power supply Adapter (19 V)

1 x Cat5e Ethernet cable
For connecting the PSU and PC

Prepare the following tools:

M6 inner hexagon wrench

Screwdriver

Adjustable wrench

Cat5e Ethernet cable [1]
For connecting the ODU and PSU

Rubber hammer
Optional for mounting on a wall

Percussion drill

If you need to install mounting kits on wood materials, prepare screws (recommended model: ST4.2 with length ≥ 25 mm).
[1] An outdoor Ethernet cable requires a PVC conduit and must be installed far away from the parapet and lightning strip (recommended distance: more than 0.5 m).
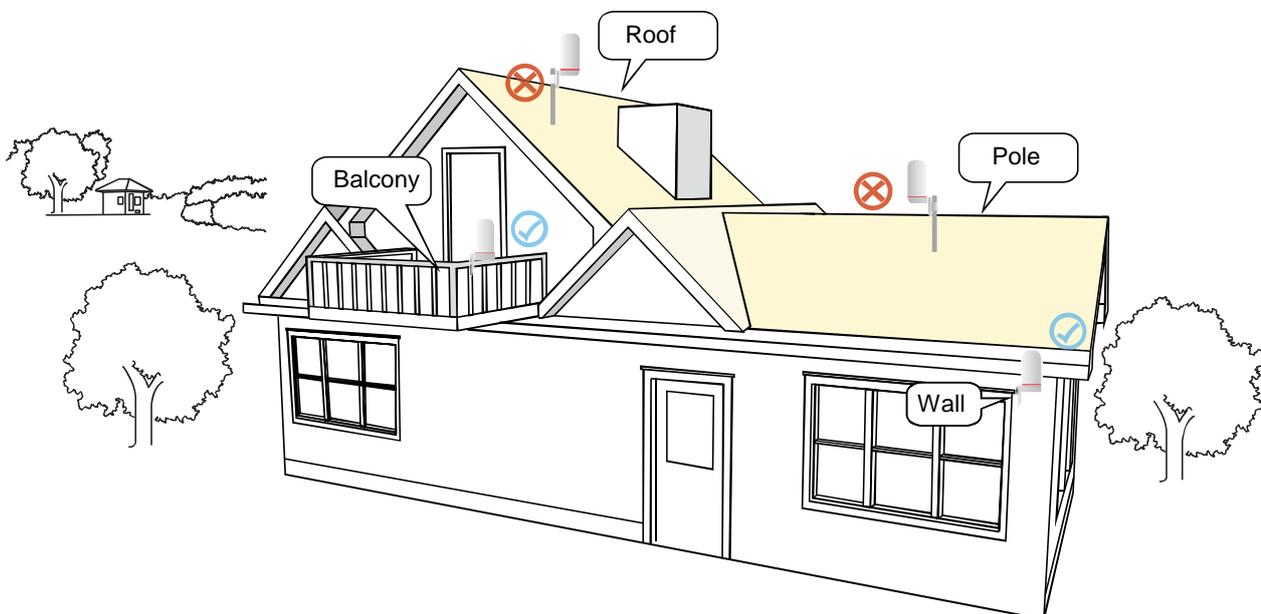If an Ethernet cable is routed within a street lamp pole, no PVC conduit is required.
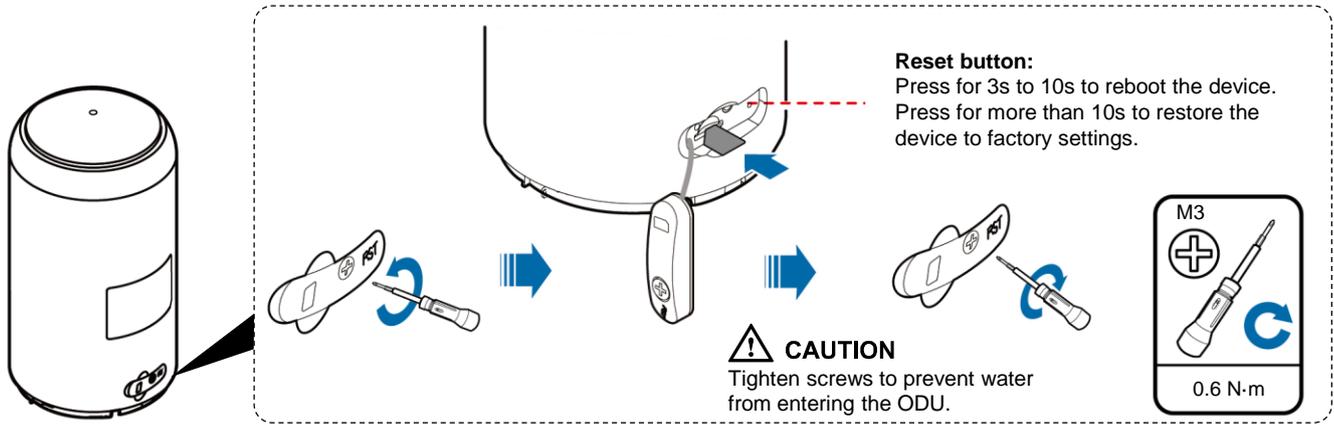
2 Installation Location Selection

1. Find an installation area. → 2. Insert the SIM card. → 3. Connect cables and power on the device. → 4. Select a location with best signal quality.

1. Find an installation area.

An ODU is an LTE wireless signal reception and transmission unit. Pay attention to the following points when selecting an installation location:
• You are advised to install an ODU in a recommended location, such as a balcony or a wall shown in the following figure.
• You are advised not to install an ODU on an open rooftop or platform, as indicated by red crosses in the following figure. Otherwise, ODU performance deteriorates.

Roof

Balcony

Pole

Wall

2. Insert a micro-SIM (3FF) card to the ODU.

Reset button:
Press for 3s to 10s to reboot the device.
Press for more than 10s to restore the device to factory settings.

⚠ **CAUTION**
Tighten screws to prevent water from entering the ODU.

M3
0.6 N·m

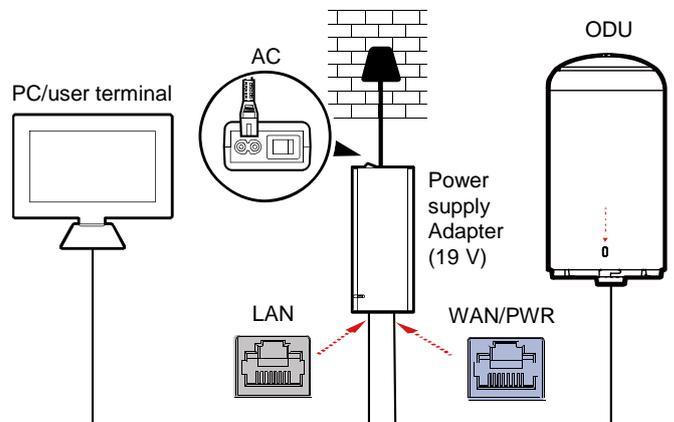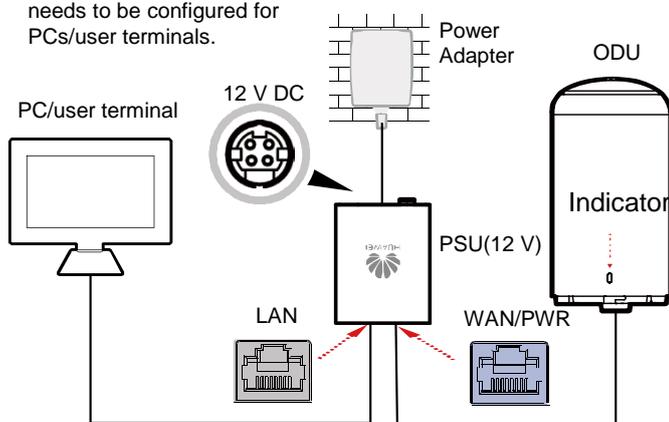## 3. Connect cables and power on the device.

Either a 12 V or 19 V power adapter can be used by the B2368.

Scenario 1: 12 V PSU

⚠ **CAUTION**
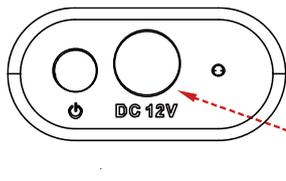Automatic IP address obtaining needs to be configured for PCs/user terminals.

PC/user terminal

12 V DC

Power Adapter

ODU

Indicator

PSU(12 V)

LAN

WAN/PWR

Scenario 2: 19 V Power Supply Adapter

PC/user terminal

AC

ODU

Power supply Adapter (19 V)

LAN

WAN/PWR

PSU indicators

DC 12V

Pressed	Powered on
Released	Powered off

⚠ **CAUTION**
The WAN/PWR interface can be connected to only the ODU. This interface may damage the PCs or other devices.
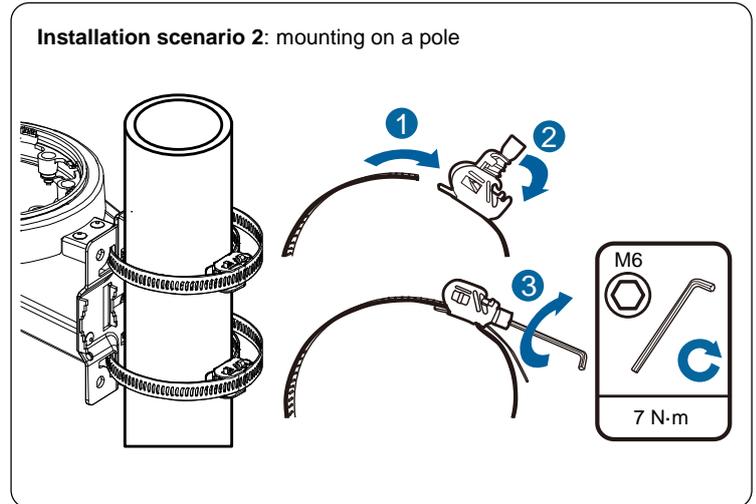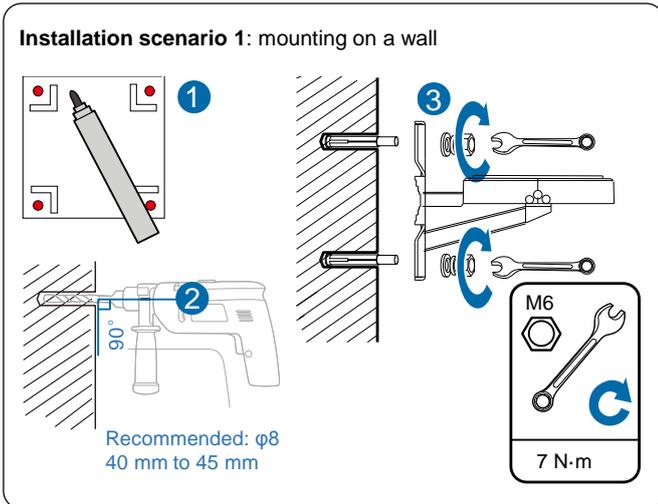
4. Select a location with best signal quality.

- Move the ODU in the installation area. Observe the signal indicator to select a location with best signal quality (**strong LTE signals**).
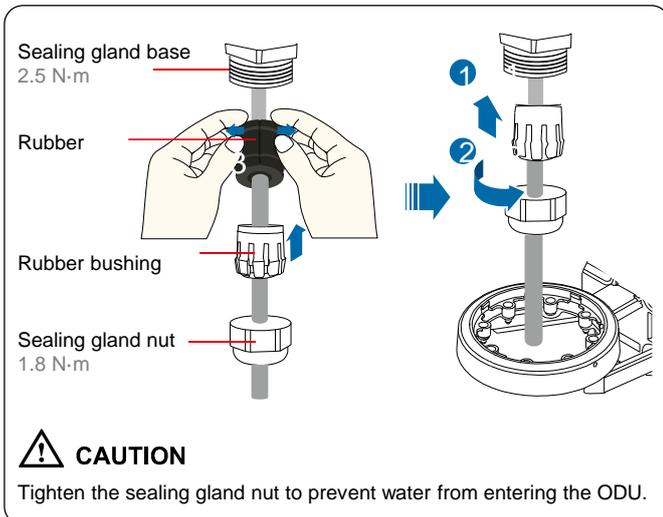- For other indicator statuses, see the following table.

| Color	LED Status	Status Indication
Off		Powered off
Red	Steady on	An error occurs, the device is faulty, or there is no SIM card.
	Blinking	Upgrading
Green	Blinking	Booting up
Green	Steady on	**Strong LTE signals; recommended for installation**
Blue	Steady on	Medium LTE signals; suitable for installation
Yellow	Steady on	Weak LTE signals; recommended for location reselection
Yellow	Blinking	No LTE signals are available, the device is searching for signals, or the device is disconnected.

3 ODU Installation

1 Install mounting kits. (For the board component, go to step 3 after step 1 is completed.)

Installation scenario 1: mounting on a wall

Recommended: φ8
40 mm to 45 mm

M6

7 N·m

Installation scenario 2: mounting on a pole

M6

7 N·m

2 Connect the waterproof connector and ODU. Install components for the waterproof connector in the sequence shown in the following figure.

Sealing gland base
2.5 N·m

Rubber

Rubber bushing

Sealing gland nut
1.8 N·m

⚠ **CAUTION**

Tighten the sealing gland nut to prevent water from entering the ODU.

3 Align mounting kits and rotate the device clockwise in the lock direction until it fully stops. Determine the direction of the ODU indicator as required. You can rotate the ODU counterclockwise to remove it.

⚠ **CAUTION**

You must hear a click to complete installation to avoid shedding or damaging the device.
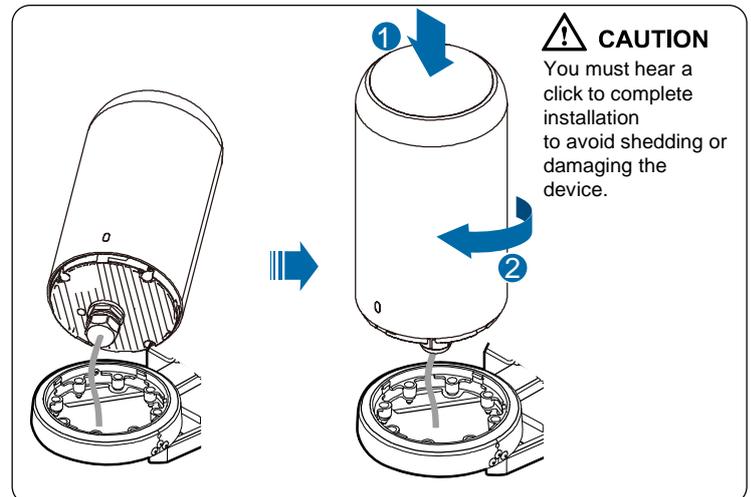
4 Connect ODU and PSU and power on the ODU. See step 3 (Connect cables and power on the device) in part 2 Installation Location Selection.

⚠ **CAUTION**

The ODU must be powered on within 24 hours after unpacking. The ODU must not be powered off for 24 hours or longer during maintenance.

4 (Optional) Configuration

Users can access the WebUI and configure the device using the following method:
Open a web browser on a PC and enter the IP address in the address bar. Then, enter the user name and password. The information you need is as follows.

Log In ✖

User name

Password   Forgot password

Log In   Cancel

IP address: **192.168.192.1**
User name: **user**
Password: **LTE@Endusr**

⚠ **CAUTION**

It is strongly recommended that you change the default login password of the WebUI to prevent unauthorized users from changing the settings.

5 Safety Information

Before using and operating this device, read the following precautions carefully to ensure optimal device performance and avoid dangers or violation of laws and regulations.

Wireless Devices

Do not use this device in areas where the use of wireless devices is prohibited as it may interfere with other devices or present other hazards.

Impact on Medical Equipment

Radio waves generated by the device may interfere with the operation of implanted medical appliances or personal medical appliances, such as the pacemakers, cochlear implants, and hearing aids. If such appliances are used, consult the appliance manufacturer about the restrictions for using the device.

Areas with Inflammables and Explosives

- Do not use the device where inflammables or explosives are stored, for example, in a gas station, oil depot, or chemical plant. Otherwise, explosions or fires may occur. In addition, follow the instructions indicated in text or symbols.
- Do not store or transport the device in containers with flammable liquids, gases, or explosives.

Children Safety

Keep the device, its accessories, and plastic bags out of the reach of children. Otherwise, they may damage the device and its accessories by mistake, or they may swallow the small components of the device or put their heads into the plastic bags, causing suffocation or other dangerous situations.

Accessory Requirements

NOTE: The accessories of the device include the power adapter, cables, and mounting kits.
Use only the accessories supplied by the device manufacturer. Otherwise, the device may be faulty, fail, or even cause fires. Violating the warranty for the device or the laws and regulations related to telecommunications terminals may cause injuries.

Operating Environment

- Use the ODU at an ambient temperature of –40ºC to 50ºC. An overly high or low ambient temperature may cause device faults.
- Use the IDU at an ambient temperature of 0ºC to 40ºC. An overly high or low ambient temperature may cause device faults.
- Use the ODU at an ambient humidity of 5%RH to 100%RH (non-condensing). An overly high or low ambient humidity may cause device faults.
- Use the IDU at an ambient humidity of 5%RH to 95%RH. An overly high or low ambient humidity may cause device faults.
- The power supply voltage must meet the requirements for the input voltage of the device.
- Keep the device away from electronic appliances that generate strong magnetic or electric fields, such as a transformer, microwave oven, or refrigerator.
- When using the device indoors, avoid dusty, damp, or dirty environments. Using the device in these environments may result in circuit malfunctions.
- Keep the device stable to avoid personal injury or device damage.
- Keep the device away from heat sources, flammable materials, or exposed fire sources.
- Do not install the device in areas exposed to acidic, alkaline, or other corrosive gases.
- Keep the device and accessories in a well-ventilated area. Do not enclose or cover your device with towels or other objects. Do not place the device in a container with poor heat dissipation, such as a box or bag. Poor heat dissipation may damage the device.

- During thunderstorms, power off your device and remove all cables connected to it to protect against device faults or lightning strikes.
- Do not place any object (such as a candle or a water container) on the device to avoid risks caused by liquid leakage. If any foreign object or liquid enters the device, stop using the device immediately, power it off, remove all the connected cables, and then contact your operator.
- The device temperature increases after the device runs for a while. If the device is overheated, avoid contacting it for an extended period. Otherwise, low temperature burn symptoms, such as red spots and darker pigmentation, may occur.
- In the use of the device, do not touch the cable connectors.
- Do not scratch or damage the device shell. Flaking or peeling of the paint may lead to skin allergy or malfunction of the device. If paint flakes and peels drop into the host, a short circuit may occur.

Cleaning and Maintenance

- During storage, transportation, and operation of the device, keep it dry and prevent it from colliding with other objects.
- If the device is not going to be used for an extended period of time, power it off and remove all cables connected to it.
- Keep the power plug clean and dry to prevent electric shocks or other dangers.
- If any exception occurs, for example, if the device emits any smoke or unusual sound or smell, stop using the device immediately, power it off, remove all the cables connected to it, and then contact your operator.
- Do not trample, pull, or overbend any cable. Otherwise, the cable may get damaged, causing malfunction of the device.
- Do not use damaged or aged cables. Using such cables may lead to electric shocks or fire.
- Before cleaning or maintaining the device, stop using it, power it off, and then remove all cables connected to it.
- Use a clean, soft, and dry cloth to clean the device shell. Do not use any chemical detergent, powder, or other chemical agents to clean the device.
- Do not place magnetic stripe cards, such as credit cards and phone cards, or floppy disks, near the device for extended periods of time. Otherwise, the magnetic stripe cards may be damaged or the stored data in the floppy disks may be lost.
- Without authorization, no organization or individual can change the mechanical, safety, or performance design of the device.
- When using the CPE, observe all applicable laws and regulations and respect the legal rights of other people.

Environmental Protection

- Do not dispose of the device and its accessories in a garbage can.
- Dispose of the device according to the local regulations on disposing of packing materials and abandoned devices. Support proper collection and recycling.

RoHS for Environment Protection

This device complies with the RoHS Directive 2011/65/EU and other RoHS directives in other countries.

RF Exposure Information

This device meets the EU requirements and the International Commission on Non-Ionizing Radiation Protection (ICNIRP) on the limitation of exposure of the general public to electromagnetic fields by way of health protection. This device should be installed and operated with a minimum of 20 cm spacing to any person at all times.

EU Regulatory Conformance Statement

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.

Frequency Band and Output Power

The frequency bands and the output power in EU are listed below:

B2368-A01 LTE:
FDD: band 1/band 3/band 7/band 8/band 20
TDD: band 38/band 40/band 41/band 42/band 43
B2368-A02 LTE:
FDD: band 2/band 4/band 7/band 28
TDD: band 38/band 40/band 41/band 42/band 43
B2368-A05 LTE:
FDD: band 1/band 3/band 7/band 28
TDD: band 38/band 40/band 41/band 42/band 43
B2368-A06 LTE:
FDD: band 1/band 3/band 7/band 20/band 28,
B28: only supports 703–733 MHz
TDD: band 38/band 40/band 41/band 42/band 43
B2368-F20 LTE:
FDD: band 1/band 3/band 7/band 20/band 28
B28: only supports 718–748 MHz
B2368-T20 LTE:
TDD: band 38/band 41/band 42/band 43
B2368-A22 LTE:
FDD: Band 2, band 4, band 7, and band 28
TDD: band 40, band 42, and band 43

Output Power of B2368: 23 dBm± 2 dB