

**LTE Outdoor CPE B2368-A01
V200R003C00**

Product Description

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1 About This Document

1.1 Change History

Issue	Change Description	Date
V1.0	GA version	2018-10-31

1.2 Summary

This document provides information of product features, main functions and services, and technical specifications and references.

The following table describes the contents in this document.

Chapter	Description
2 Product Overview	Describes the product appearance and main services.
3 Features	Describes the product features.
4 Technical Specifications	Describes the specifications of product hardware, software, and the user interface.
5 Services and Applications	Describes the main functions and applications.
6 System Structure	Describes the product system structure.
7 Technical References	Describes standards and communication protocols which the products comply with.
8 Packing List	Describes the product packing list.
9 Acronyms and Abbreviations	Describes acronyms and abbreviations.

 **NOTE**

The document is an invitation to offer but not an offer. It describes the general product features and functions. The features and functions of certain products vary with customer requirements.

2 Product Overview

2.1 Product Overview

The Huawei LTE customer-premises equipment (CPE) B2368-A01 (hereinafter referred to as the B2368) is an LTE wireless gateway for multiple users and is mainly used in household scenarios. You can access the Internet through a wired or wireless network.

The B2368 supports 3GPP Release 12 and UE CAT13 in the uplink and CAT12 in the downlink.

The B2368 supports the following functions:

- Data services
- Security services
- IP pass-through
- Multi-APN configuration
- Local maintenance management
- Firmware over the air (FOTA)
- ODU only

2.2 Product Introduction

The B2368 is an LTE wireless gateway CPE. It converts data between LTE wireless wide area networks (WANs) and wired local area networks (LANs) and performs data backhaul for user terminals. The B2368 can be used independently and deployed outdoors.

The B2368 support 3GPP Release 11 or Release 12. Wired and wireless network access modes are supported. The CPE provides the following services and functions:

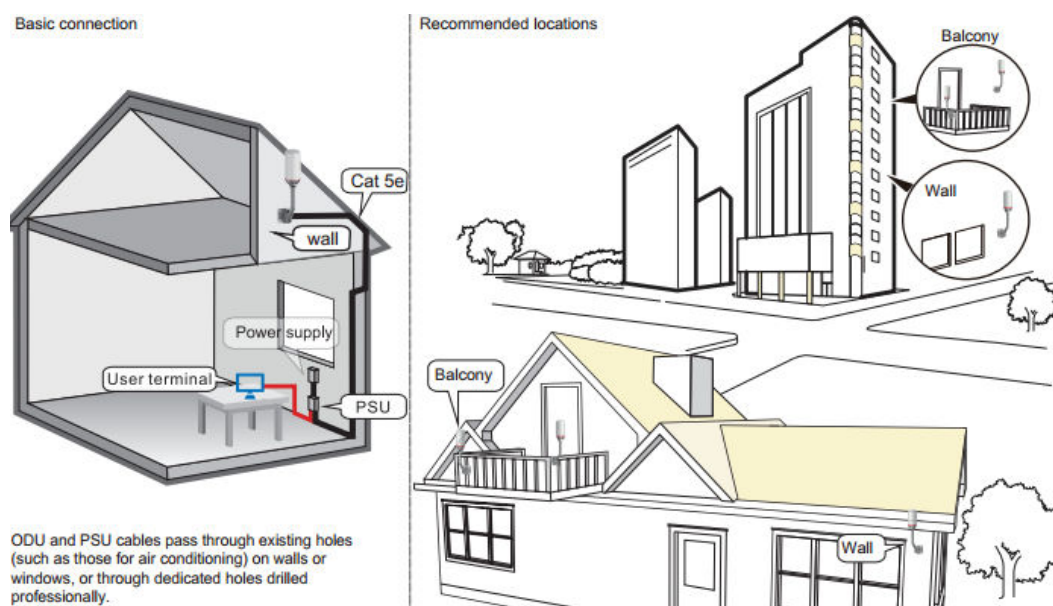
- Data services
The LTE broadband technology is adopted to support high-speed access to the Internet.
- Small-scale LAN services
The B2368 can connect to terminals through network cables to provide data services.
- Security services
The CPE supports the PIN password protection mechanism, which protects user data when users access the Internet.

- Firewall services
The CPE protects user data during Internet access and supports the following firewall functions:
 - Firewall switch: Enable or disable the firewall connected to the network.
 - LAN Media Access Control (MAC) address filtering: Prevent the devices from accessing specified MAC addresses.
 - Local management and maintenance services
Local configuration helps to manage devices and configure the network, ensuring that the devices function properly.
- Remote management and maintenance services
CPEs can be managed remotely using the TR069.

2.3 Application Scenarios

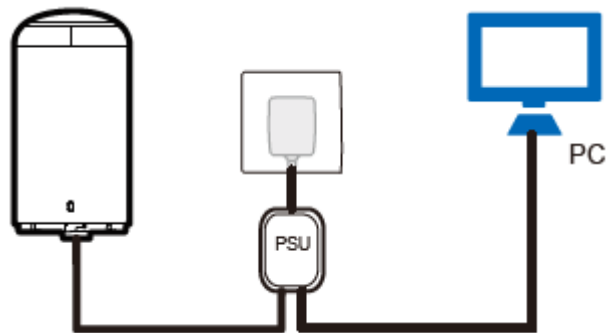
The B2368 provides wireless broadband access services for users and fixed wireless access for enterprises and industry customers, and can meet outdoor deployment requirements. **Figure 2-1** shows an example of the B2368 application scenario. The B2368 supports LTE TDD and FDD wireless routes and converts data between LTE wireless and Ethernet wired networks.

Figure 2-1 Example of the B2368 application scenario



The B2368 connects to a user terminal or power adapter through a CAT5E network cable, as shown in **Figure 2-2**.

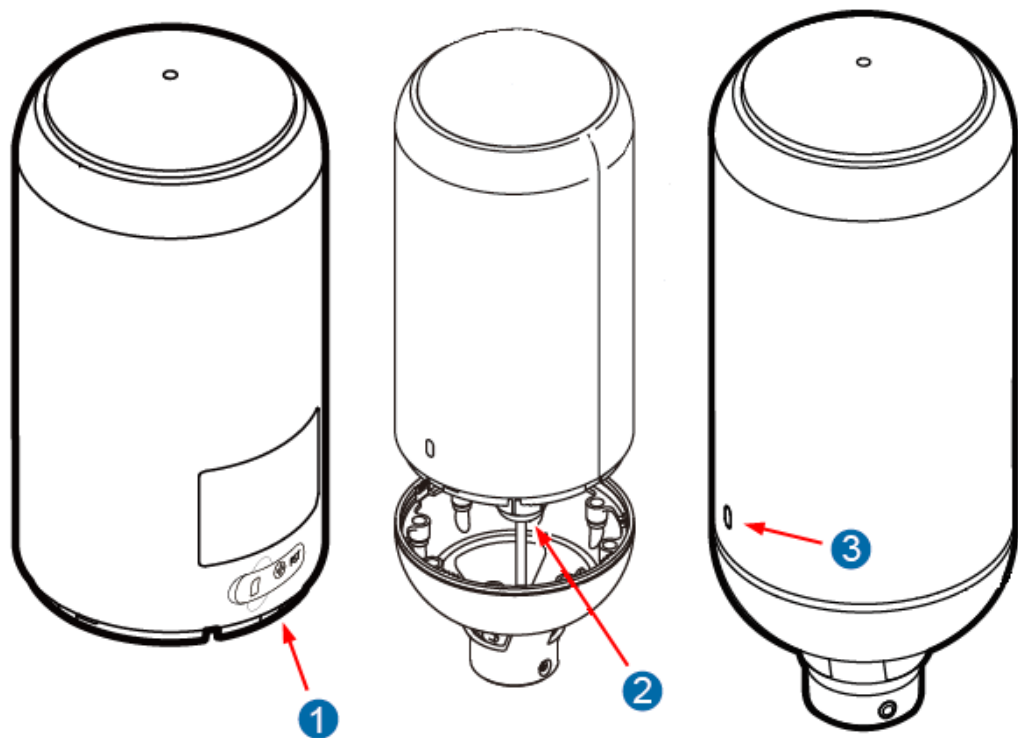
Figure 2-2 B2368 cable connections



 **NOTE**

If the device connected to the CPE has more than two network ports to connect to the Internet or internal network, you need to configure a route to the destination address on these network ports. For details about how to configure a route, see the route configuration guide of the device.

Figure 2-3 B2368 exterior



3 Features

The main features of the B2368 are listed as follows:

- LTE connectivity with downlink 4x4 MIMO+2CC CA and UL 2CC CA+64QAM
 - Support for LTE TDD downlink 4x4 MIMO and downlink 2CC CA (up to 40 MHz)
 - Support for LTE FDD downlink 4x4 MIMO (band 3/band 7), 2x2 MIMO (band 1/band 8/band 20) and downlink 2CC CA (up to 40 MHz)
 - Support for LTE FDD+TDD downlink 2CC CA (up to 40 MHz)
 - Support for LTE FDD/TDD uplink 2CC CA (up to 40 MHz) and UL 64QAM
- High-speed transmission
 - Support for LTE UE CAT13 in the uplink and CAT12 in the downlink
 - Support for a maximum throughput of 420 Mbit/s in the downlink and 30 Mbit/s in the uplink when TDD uplink-downlink subframe configuration 2 is used
 - Support for a maximum throughput of 584 Mbit/s in the downlink and 150 Mbit/s in the uplink for FDD
- Flexible networking capabilities
High-speed data transmission capability
- Flexible security services
Support for a MAC address filtering firewall
- Web-based configuration
Support for local management and maintenance using a built-in web-based platform featuring a user-friendly web interface
- TR069-based device management
 - Support for the CPE WAN Management Protocol (CWMP) specified in Broadband Forum TR-069
 - Support for remote software image installation with a set of configuration and status parameters
- Antenna and interface
Built-in high-gain, high-performance LTE antenna
- Others
 - A user-friendly design of LED indicators to show equipment statuses

- Support for Windows 7, Windows 8, Windows 10, Linux, and Mac
- Compatible with various browsers, including Internet Explorer, Firefox, Chrome, and Safari

4 Technical Specifications

4.1 Hardware Specifications

The following table describes technical specifications of the B2368.

Table 4-1 Technical specifications of the B2368

Item	Description
Dimensions (Φ x H /W×D×H)	ODU: Φ 125 mm x 240 mm Power supply unit (PSU): 70.6 mm x 56 mm x 27 mm Power adapter: 85.5 mm x 50.9 mm x 45.7 mm
Weight	ODU: < 2 kg PSU+power adapter: < 300 g
Weight (including the package)	< 4.2 kg (including the packing box and mounting kits)
Technical standard	WAN: 3GPP Release 12 (CAT13 in the uplink and CAT12 in the downlink) LAN: IEEE 802.3
Working frequency band	Band 1, band 3, band 7, band 8, and band 20 Band 38, band 40, band 41, band 42, and band 43
Frequency channel bandwidth	FDD: 5 MHz, 10 MHz, 15 MHz, and 20 MHz TDD: 10 MHz, 15 MHz, and 20 MHz

Item	Description
External interface	<p>ODU: 1 x Giga PSU LAN port (RJ45); 10 Mbit/s, 100 Mbit/s, or 1000 Mbit/s 1 x USIM card slot</p> <p>PSU (only the ODU is supported): 1 x PSU WAN port (RJ45) 1 x Ethernet port (RJ45) (10 Mbit/s, 100 Mbit/s, or 1000 Mbit/s) 1 x DC IN port</p>
LED indicator	<p>ODU: 1 x System Power indicator 1 x System indicator 1 x LTE signal strength</p> <p>PSU: 1 x System Power indicator</p>
Maximum transmit power (LTE)	200 mW (23 dBm)
Receiving sensitivity (LTE)	<p>Band 38/band 40: - 97 dBm/10 MHz, - 95.2 dBm/15 MHz, - 94 dBm/20 MHz</p> <p>Band 41: - 95 dBm/10 MHz, - 93.2 dBm/15 MHz, - 92 dBm/20 MHz</p> <p>Band 42/band 43: - 96 dBm/10 MHz, - 94.2 dBm/15 MHz, - 93 dBm/20 MHz</p> <p>Band 1: - 100 dBm/5 MHz, - 97 dBm/10 MHz, - 95.2 dBm/15 MHz, - 94 dBm/20 MHz</p> <p>Band 3: - 97 dBm/5 MHz, - 94 dBm/10 MHz, - 92.2 dBm/15 MHz, - 91 dBm/20 MHz</p> <p>Band 7: - 98 dBm/5 MHz, - 95 dBm/10 MHz, - 93.2 dBm/15 MHz, - 92 dBm/20 MHz</p> <p>Band 8: - 97 dBm/5 MHz, - 94 dBm/10 MHz</p> <p>Band 20: - 97 dBm/5 MHz, - 94 dBm/10 MHz, - 91.2 dBm/15 MHz, - 90 dBm/20 MHz</p>
Power consumption	<p>Average power consumption of the ODU only during peak hours: < 13 W Average power consumption of the ODU only: < 8 W</p>

Item	Description
AC/DC power supply	AC: 100 V to 240 V, 50 Hz/60 Hz DC: 12 V/2 A
Temperature	ODU: Working temperature: <ul style="list-style-type: none"> ● With solar radiation of 1120 W/m²: - 40°C to +50°C ● Without solar radiation: - 40°C to +55°C Storage temperature: - 40°C to +70°C PSU and power adapter: <ul style="list-style-type: none"> ● Working temperature: - 5°C to +40°C ● Storage temperature: - 40°C to +70°C
Humidity	5% to 95%
Environmental	IP65 for ODU
Certification/compliance	CE certification IEC/ EN62368 Wireless Safety IEC/EN60950-22 Environmental CE CISPR 32 Class B ROHS REACH WEEE

4.2 CA Combination Sets

The following tables describe the CA combinations supported by the B2368.

Table 4-2 DL 2CC Downlink CA configurations

No.	Allowed Band Combinations		Remarks
	PCC	SCC	
1	Band 1	Band 3	Up to 40 MHz bandwidth, inter-band
2	Band 1	Band 7	Up to 40 MHz bandwidth, inter-band
3	Band 1	Band 8	Up to 40 MHz bandwidth, inter-band
4	Band 1	Band 20	Up to 40 MHz bandwidth, inter-band
5	Band 3	Band 1	Up to 40 MHz bandwidth, inter-band
6	Band 3	Band 7	Up to 40 MHz bandwidth, inter-band
7	Band 3	Band 8	Up to 40 MHz bandwidth, inter-band

8	Band 3	Band 20	Up to 40 MHz bandwidth, inter-band
9	Band 7	Band 1	Up to 40 MHz bandwidth, inter-band
10	Band 7	Band 3	Up to 40 MHz bandwidth, inter-band
11	Band 7	Band 8	Up to 40 MHz bandwidth, inter-band
12	Band 7	Band 20	Up to 40 MHz bandwidth, inter-band
13	Band 1	Band 1	Up to 40 MHz bandwidth, contiguous
14	Band 3	Band 3	Up to 40 MHz bandwidth, contiguous
15	Band 7	Band 7	Up to 40 MHz bandwidth, contiguous
16	Band 8	Band 8	Up to 20 MHz bandwidth, contiguous
17	Band 20	Band 20	Up to 40 MHz bandwidth, contiguous
23	Band 38	Band 38	Up to 40 MHz bandwidth, contiguous & non-contiguous
24	Band 40	Band 40	Up to 40 MHz bandwidth, contiguous & non-contiguous
25	Band 41	Band 41	Up to 40 MHz bandwidth, contiguous & non-contiguous
26	Band 42	Band 42	Up to 40 MHz bandwidth, contiguous & non-contiguous
27	Band 43	Band 43	Up to 40 MHz bandwidth, contiguous
28	Band 38	Band 40	Up to 40 MHz bandwidth, inter-band
29	Band 38	Band 42	Up to 40 MHz bandwidth, inter-band
30	Band 38	Band 43	Up to 40 MHz bandwidth, inter-band
31	Band 40	Band 38	Up to 40 MHz bandwidth, inter-band
32	Band 40	Band 41	Up to 40 MHz bandwidth, inter-band
34	Band 40	Band 42	Up to 40 MHz bandwidth, inter-band
35	Band 40	Band 43	Up to 40 MHz bandwidth, inter-band
36	Band 41	Band 40	Up to 40 MHz bandwidth, inter-band
37	Band 41	Band 42	Up to 40 MHz bandwidth, inter-band
38	Band 41	Band 43	Up to 40 MHz bandwidth, inter-band
39	Band 42	Band 38	Up to 40 MHz bandwidth, inter-band
40	Band 42	Band 40	Up to 40 MHz bandwidth, inter-band
41	Band 42	Band 41	Up to 40 MHz bandwidth, inter-band
42	Band 42	Band 43	Up to 40 MHz bandwidth, inter-band

43	Band 43	Band 38	Up to 40 MHz bandwidth, inter-band
44	Band 43	Band 40	Up to 40 MHz bandwidth, inter-band
45	Band 43	Band 41	Up to 40 MHz bandwidth, inter-band
46	Band 43	Band 42	Up to 40 MHz bandwidth, inter-band
47	Band 38	Band 1	Up to 40 MHz bandwidth, inter-band
48	Band 38	Band 3	Up to 40 MHz bandwidth, inter-band
49	Band 38	Band 8	Up to 40 MHz bandwidth, inter-band
50	Band 38	Band 20	Up to 40 MHz bandwidth, inter-band
51	Band 40	Band 1	Up to 40 MHz bandwidth, inter-band
52	Band 40	Band 3	Up to 40 MHz bandwidth, inter-band
53	Band 40	Band 8	Up to 40 MHz bandwidth, inter-band
54	Band 40	Band 20	Up to 40 MHz bandwidth, inter-band
55	Band 41	Band 3	Up to 40 MHz bandwidth, inter-band
56	Band 41	Band 20	Up to 40 MHz bandwidth, inter-band
57	Band 42	Band 1	Up to 40 MHz bandwidth, inter-band
58	Band 42	Band 3	Up to 40 MHz bandwidth, inter-band
59	Band 42	Band 8	Up to 40 MHz bandwidth, inter-band
60	Band 42	Band 20	Up to 40 MHz bandwidth, inter-band
61	Band 1	Band 38	Up to 40 MHz bandwidth, inter-band
62	Band 1	Band 40	Up to 40 MHz bandwidth, inter-band
63	Band 1	Band 42	Up to 40 MHz bandwidth, inter-band
64	Band 3	Band 38	Up to 40 MHz bandwidth, inter-band
65	Band 3	Band 40	Up to 40 MHz bandwidth, inter-band
66	Band 3	Band 41	Up to 40 MHz bandwidth, inter-band
67	Band 3	Band 42	Up to 40 MHz bandwidth, inter-band
68	Band 8	Band 38	Up to 40 MHz bandwidth, inter-band
69	Band 8	Band 40	Up to 40 MHz bandwidth, inter-band
70	Band 8	Band 42	Up to 40 MHz bandwidth, inter-band
71	Band 20	Band 38	Up to 40 MHz bandwidth, inter-band
72	Band 20	Band 40	Up to 40 MHz bandwidth, inter-band
73	Band 20	Band 41	Up to 40 MHz bandwidth, inter-band

74	Band 20	Band 42	Up to 40 MHz bandwidth, inter-band
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Table 4-3 Uplink CA configurations

No.	Allowed Band Combinations		Remarks
	PCC	SCC	
1	Band 38	Band 38	Up to 40 MHz bandwidth, contiguous
2	Band 40	Band 40	Up to 40 MHz bandwidth, contiguous
3	Band 41	Band 41	Up to 40 MHz bandwidth, contiguous
4	Band 42	Band 42	Up to 40 MHz bandwidth, contiguous
5	Band 43	Band 43	Up to 40 MHz bandwidth, contiguous
6	Band 1	Band 1	Up to 40 MHz bandwidth, contiguous
7	Band 3	Band 3	Up to 40 MHz bandwidth, contiguous
8	Band 7	Band 7	Up to 40 MHz bandwidth, contiguous
9	Band 8	Band 8	Up to 20 MHz bandwidth, contiguous
10	Band 20	Band 20	Up to 30 MHz bandwidth, contiguous
11	Band 38	Band 40	Up to 40 MHz bandwidth, inter-band
12	Band 40	Band 38	Up to 40 MHz bandwidth, inter-band
13	Band 38	Band 42	Up to 40 MHz bandwidth, inter-band
14	Band 42	Band 38	Up to 40 MHz bandwidth, inter-band
15	Band 40	Band 41	Up to 40 MHz bandwidth, inter-band
16	Band 41	Band 40	Up to 40 MHz bandwidth, inter-band
17	Band 40	Band 42	Up to 40 MHz bandwidth, inter-band
18	Band 42	Band 40	Up to 40 MHz bandwidth, inter-band
19	Band 41	Band 42	Up to 40 MHz bandwidth, inter-band
20	Band 42	Band 41	Up to 40 MHz bandwidth, inter-band
21	Band 42	Band 43	Up to 40 MHz bandwidth, inter-band
22	Band 43	Band 42	Up to 40 MHz bandwidth, inter-band
23	Band 38	Band 1	Up to 40 MHz bandwidth, inter-band
24	Band 38	Band 8	Up to 30 MHz bandwidth, inter-band
25	Band 38	Band 20	Up to 40 MHz bandwidth, inter-band

26	Band 40	Band 1	Up to 40 MHz bandwidth, inter-band
27	Band 40	Band 8	Up to 40 MHz bandwidth, inter-band
28	Band 40	Band 20	Up to 40 MHz bandwidth, inter-band
29	Band 42	Band 1	Up to 40 MHz bandwidth, inter-band
30	Band 42	Band 8	Up to 40 MHz bandwidth, inter-band
31	Band 42	Band 20	Up to 40 MHz bandwidth, inter-band
34	Band 1	Band 38	Up to 40 MHz bandwidth, inter-band
35	Band 1	Band 40	Up to 40 MHz bandwidth, inter-band
36	Band 1	Band 42	Up to 40 MHz bandwidth, inter-band
37	Band 8	Band 38	Up to 40 MHz bandwidth, inter-band
38	Band 8	Band 40	Up to 40 MHz bandwidth, inter-band
39	Band 8	Band 42	Up to 40 MHz bandwidth, inter-band
40	Band 20	Band 38	Up to 40 MHz bandwidth, inter-band
41	Band 20	Band 40	Up to 40 MHz bandwidth, inter-band
42	Band 20	Band 42	Up to 40 MHz bandwidth, inter-band

4.3 Antenna Specifications

Table 4-4 LTE antenna specifications

Item	Description
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Frequency	<p>TDD:</p> <ul style="list-style-type: none"> ● Band 38: 2570 – 2620 MHz ● Band 40: 2300 – 2400 MHz ● Band 41: 2496 – 2690 MHz ● Band 42: 3400 – 3600 MHz ● Band 43: 3600 – 3800 MHz <p>FDD:</p> <ul style="list-style-type: none"> ● Band 1: 1920 – 1980 MHz in the uplink and 2110 – 2170 MHz in the downlink ● Band 3: 1710 – 1785 MHz in the uplink and 1805 – 1880 MHz in the downlink ● Band 7: 2500 – 2570 MHz in the uplink and 2620 – 2690 MHz in the downlink ● Band 8: 880 – 915 MHz in the uplink and 925 – 960 MHz in the downlink ● Band 20: 832 – 862 MHz in the uplink and 791 – 821 MHz in the downlink
Input impedance	50 Ω
Standing wave ratio	< 3.0 (after being matched; all frequencies)
Efficiency	≥ 50%
Gain	<p>3.4 GHz to 3.8 GHz (TDD): 8 dBi to 9 dBi</p> <p>2.3 GHz to 2.6 GHz (TDD): 6 dBi to 7dBi</p> <p>1.8 GHz to 2.6 GHz (FDD): 3 dBi to 4 dBi (band 1); 6 dBi to 7 dBi (band 3/band 7)</p> <p>700 MHz to 900 MHz (FDD): 0 dBi to 2 dBi</p>
Isolation	> 8 dB
Tx/Rx	<p>TDD: 1T4R</p> <p>FDD: 1T4R (band 3/band 7)</p> <p>FDD: 1T2R (band 1/band 8/band 20)</p>

4.4 Software Specifications

Table 4-5 Software specifications

Item	Description
LTE features	TDD downlink 4x4 MIMO+2CC CA
	FDD downlink 4x4 MIMO (band 3/band 7)+2CC CA
	FDD downlink 2x2 MIMO (band 1/band 8/band 20)+2CC CA
	TDD uplink 2CC CA/FDD uplink 2CC CA
	FDD (4x4 MIMO) (band 3/band 7)+TDD (4x4 MIMO) 2CC CA
	FDD (2x2 MIMO) (band 1/band 8/band 20)+TDD (4x4 MIMO) 2CC CA
	LTE TDD MIMO: 1. TDD only: support for TM2/TM3/TM4/TM7/TM8/TM9 (CRS configuration: two ports) or TM3/TM4 (CRS configuration: four ports) 2. FDD+TDD: TDD support for TM2/TM3/TM4/TM9 (CRS configuration: two ports)
	LTE FDD MIMO: TM2/TM3/TM4
	Uplink 64QAM
Profile	Power-on duration: < 2 min
	Restart duration: < 2 min
Mobile network	APN management
Data service	LTE: UE CAT13 in the uplink and CAT12 in the downlink
	Support for two APNs (one for data and the other for management)
Firewall setup	Firewall enabling and disabling
	MAC address filtering
LAN	Auto-negotiation among 10 Mbit/s, 100 Mbit/s, and 1000 Mbit/s
	MDI/MDIX auto-sensing
	IEEE 802.3/802.3u-compatible
Remote management	TR069
USIM	PIN management and USIM card authentication
Maintenance	Support for export of current diagnosis results and operation logs

Item	Description
System requirement	Supported operating systems: <ul style="list-style-type: none">● Windows 10, Windows 8.1, Windows 8, and Windows 7● Mac OS X 10.9, 10.8, and 10.7 with latest upgrades● Linux
	Supported web browsers: <ul style="list-style-type: none">● IE 11.0 and later (Windows 7 and up)● Firefox 54 and later● Safari 10.1 and later (Mac)● Opera 44 and later● Chrome 67 and later
	The hardware system of your computer must meet or exceed the recommended system requirements for the installed OS version. If the IE is used, the IE compatible mode cannot be used, especially for the IE 8.

5 Services and Applications

5.1 Data Services

The B2368 supports high-speed data services on LTE networks. By connecting to the B2368 using a network cable, users can access high-speed Internet services and establish a LAN.

Ethernet LAN

You can connect the B2368 with a terminal device through an Ethernet cable in small office home office (SOHO) scenarios to provide data services.

5.2 Security Services

The B2368 supports comprehensive and robust security services, including the firewall and PIN protection mechanisms. These features together allow users to connect computers to the Internet and protect their computers from security threats on the Internet.

5.2.1 Firewall Services

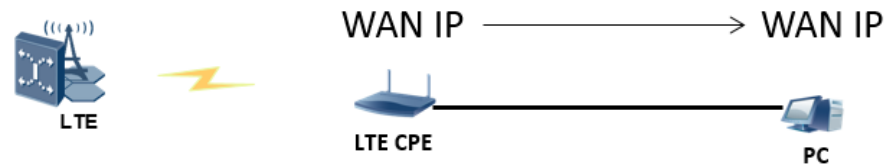
The B2368 supports to enable or disable the firewall for the network connection to protect the device and network from cyber attacks and unauthorized access.

5.2.2 MAC Address Filtering

The B2368 can prevent specified MAC addresses from network access.

5.3 IP Pass-through

The CPE obtains the WAN IP address and sends it to PC. The PC behind the CPE can directly use the WAP IP address to access the network.



5.4 Multi-APN Configuration

The B2368 supports establishment and maintenance of two APNs (one for data and the other for DM).

5.5 Local Management and Maintenance

The B2368 supports local configuration to perform device management, network configuration, and ensure normal and stable performance.

5.6 FOTA

The B2368 supports FOTA to allow operators to upgrade the device firmware using FOTA server remotely.

6 System Structure

- The B2368 adopts the LTE access technology on the WAN side.
- The B2368 obtains the WAN IP and sends it to PC. The PC behind the CPE can directly use the WAP IP address.
- Web-based management: You can configure the B2368, modify and query the configuration of the B2368 using a web platform remotely.

7 Technical References

7.1 Standards and Communication Protocols of the Products

Table 7-1 Standards and communication protocols of the DATACOM products

Item	Description
Physical layer	RFC894
ARP	RFC826
IP	RFC791, RFC1122, RFC1071, RFC1141, RFC1624, RFC792, RFC950, and RFC1256
ICMP	RFC792, RFC950, and RFC1256
TCP	RFC793
UDP	RFC768
DHCP	RFC1531 and RFC1533

7.2 Standards and Communication Protocols of the Wireless Uu Interface

The B2366 supports 3GPP Release 10, Release 11, Release 12, CAT7 in the downlink, and CAT13 in the uplink.

8 Packing List

Table 8-1 shows the devices and accessories of the B2368.

Table 8-1 Packing list

Description	Quantity	Unit	Remarks
ODU	1	PCS	Standard
PSU	1	PCS	Standard
Power adapter	1	PCS	Standard
Mounting kit	1	SET	Standard (pole or board)
Quick start guide	1	PCS	Standard
Expansion bolt	4	PCS	Standard
Waterproof connector	1	PCS	Standard
Hose clamp	2	PCS	Standard
1 m CAT5E Ethernet cable	1	PCS	Standard

9 Acronyms and Abbreviations

Acronym/ Abbreviation	Full Spelling
ARP	address resolution protocol
APN	access point name
CPE	customer-premises equipment
DHCP	dynamic host configuration protocol
DL	downlink
IP	Internet Protocol
ICMP	Internet Control Message Protocol
LAN	local area network
LED	light emitting diode
LTE	Long Term Evolution
SOHO	small office and home office
SCP	service control point
SDRAM	synchronous dynamic random access memory
UL	uplink
WAN	wide area network
WPS	Wi-Fi protected setup