

HUAWEI B535-232a LTE CPE V100R001

Product Description

Issue 02

Date 2022-04-21



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About This Document

Summary

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

This document includes:

Chapter	Details		
1 Product Overview	Provides an overview of the product.		
2 Technical Specifications	Describes the specifications of the product hardware, software, and user interface.		
3 Services and Applications	Describes the main functions and applications of the product.		
4 System Structure and Scenario Constraints	Describes the product system structure.		
5 Technical References	Describes the standards and communication protocols of the product.		
6 Packing List	Describes the devices and accessories that comprise the product package		

☐ NOTE

The document is an invitation to offer but not an offer. It is intended to describe the general features and functions of a product. The features and functions of certain products may vary with the requirements of customers.

History

Issue	Date	Details
01	2022-01-13	Initial official release.
02	2022-04-21	Windows 11 is added to the operating system.

Acronyms and Abbreviations

Acronym or Abbreviation	Full Spelling
3GPP	3rd Generation Partnership Project
ACS	Auto Configuration Server
AES	Advanced Encryption Standard
ALG	Application Layer Gateway
AMR-NB	Adaptive Multi-Rate compression - Narrowband
AMR-WB	Adaptive Multi-Rate compression - Wideband
AP	Access Point
APN	Access Point Name
ARP	Address Resolution Protocol
CLAT	Customer-side Translator
СРЕ	Customer Premises Equipment
CS	Circuit Switched
CSFB	Circuit Switched Fallback
DBDC	Dual Band Dual Concurrent
DC-HSPA+	Dual-Carrier - High Speed Packet Access Evolution
DHCP	Dynamic Host Configuration Protocol
DL	Downlink
DMZ	Demilitarized Zone
DNS	Domain Name Server
DTMF	Dual-Tone Multi-Frequency
EDGE	Enhanced Data rates for Global Evolution
E-UTRA	Evolved Universal Terrestrial Radio Access Network
FDD	Frequency Division Duplex
НОТА	Huawei Firmware Over the Air
HSPA	High Speed Packet Access
HSPA+	High Speed Packet Access Evolution

Acronym or Abbreviation	Full Spelling
GPRS	General Packet Radio Service
IEEE	Institute of Electrical and Electronics Engineers
IP	Internet Protocol
IPSec	Internet Protocol Security
IPv4	Internet Protocol version 4
IPv6	Internet Protocol version 6
ICMP	Internet Control Message Protocol
L2TP	Layer Two Tunneling Protocol
LAN	Local Area Network
LED	Light Emitting Diode
LTE	Long Term Evolution
MAC	Media Access Control
MDI	Medium Dependent Interface
MDIX	Medium Dependent Interface Crossover
MIMO	Multi-input Multi-output
MME	Mobility Management Entity
NAT	Network Address Translation
NAPT	Network Address and Port Translation
PC	Personal Computer
PCC	Primary Component Carrier
PGW	PDN Gateway
PIN	Personal Identification Number
PLAT	Provider-side Translator
PPTP	Point-to-Point Tunneling Protocol
QAM	Quadrature Amplitude Modulation
QR	Quick Response
RFC	Request For Comments
RTCP	Real-time Transport Control Protocol

Acronym or Abbreviation	Full Spelling
RTP	Real-time Transport Protocol
SAMBA	System for Advanced Mobile Broadband Applications
SCC	Secondary Component Carrier
SCP	Service Control Point
SDRAM	Synchronous Dynamic Random Access Memory
SDP	Session Description Protocol
SGW	Serving Gateway
SIP	Session Initiation Protocol
SMA	SubMiniature version A
SMS	Short Message
SOHO	Small Office Home Office
SSID	Service Set Identifier
TDD	Time Division Duplex
TD-SCDMA	Time Division-Synchronous Code Division Multiple Access
TKIP	Temporal Key Integrity Protocol
UE	User Equipment
UL	Uplink
UMTS	Universal Mobile Telecommunications System
UPnP	Universal Plug and Play
USB	Universal Serial Bus
USIM	UMTS Subscriber Identity Module
VPN	Virtual Private Network
WAN	Wide Area Network
WEP	Wireless Encryption Protocol
Wi-Fi	Wireless Fidelity
WMM	Wi-Fi Multimedia

Acronym or Abbreviation	Full Spelling
WPA/WPA2-PSK	Wi-Fi Protected Access/Wi-Fi Protected Access II - Pre-Shared Key
WPA2-PSK	Wi-Fi Protected Access II - Pre-Shared Key
WPS	Wi-Fi Protected Setup

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1 Product Overview

The HUAWEI LTE CPE B535-232a is a Long Term Evolution (LTE) wireless gateway for multiple users in household or small office environments. It enables users to access the Internet.

The B535-232a supports 3GPP Release 11 with LTE CAT 7. The supported service functions are as follows:

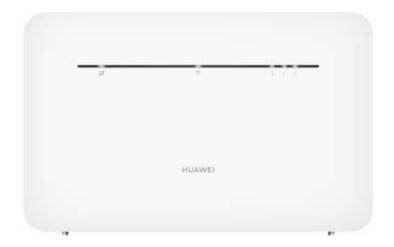
- Data service up to DL 300 Mbps and UL 100 Mbps
- Working band: LTE: B1/B3/B7/B8/B20/B28/B32/B38, UMTS: B1/B8;

DL:

CA_1C/CA_3C/CA_7C/CA_38C/CA_3A-3A/CA_1A-3A/CA_1A-7A/CA_1A-8A/
CA_1A-20A/CA_1A-28A/CA_3A-7A/CA_3A-8A(B8 only SCC)/
CA_3A-20A/CA_3A-28A/CA_7A-8A(B8 only SCC)/
CA_7A-20A/CA_7A-28A/CA_8A-32A(B32 only SCC)/CA_8A-38A(B38 only SCC)/
CA_20A-32A(B32 only SCC)/CA_20A-38A/CA_28A-38A

- UL: CA_3C/CA_7C/CA_38C
- Wi-Fi: 802.11 a/b/g/n/ac. 802.11b/g/n 2.4GHz Wi-Fi 2x2 MIMO up to 400Mbps, 802.11a/n/ac 5GHz Wi-Fi 2x2 MIMO up to 867Mbps. Maximum Users: 64
- 1 GE port for LAN/WAN, 3 GE ports for LAN
- Multi APN function (Optional) for Data, TR-069 services
- Routing mode: NAT enable (Default) / IP pass-through (Optional)
- VPN client service (L2TP, PPTP)
- Customer management via WebUI or HUAWEI AI Life app
- Operator maintenance via TR-069 (Optional) and TR-143 (Optional)
- Huawei Firmware Over the Air (HOTA)

Figure 1-1 B535-232a appearance



2 Technical Specifications

2.1 Hardware Specifications

Table 2-1 Technical specifications of the B535-232a main unit

Item	Description				
Technical	WAN	3GPP Release 11			
standard	LAN	IEEE 802.3/802.3u			
	Wi-Fi	IEEE 802.11a/b/g/n/ac			
Working	LTE	B1/B3/B7/B8/B20/B28/B32/B38			
band/frequenc y	UMTS	B1/B8			
	Wi-Fi	2.4 GHz: 2401-2483MHz,			
		5 GHz: 5170-5350MHz&5490-5710MHz			
External port	 One power adapter port One LAN/WAN port (RJ45), three LAN ports (RJ45) Two external LTE antenna ports (SMA) One SIM card slot (Nano-SIM) 				
Antennas	 Built-in LTE/UMTS primary antenna Built-in LTE/UMTS secondary antenna Built-in Wi-Fi 2.4 GHz antenna Built-in Wi-Fi 5.0 GHz antenna 				

Item	Description							
LED Indicators	One In White: Red: N insuffic One W On: Wi Flash s Flash c progre Off: W In NO The dete One gr Signal	nternet status indicator Connected to the Internet. So SIM card is inserted or detected, or the SIM card has cient balance. Vi-Fi indicator Vi-Fi is enabled. Slowly: A pairable HiLink device is detected. quickly: HiLink pairing is in progress/WPS connection is in less. Vi-Fi is disabled.						
Buttons	 One Power ON/OFF switch One H button The Wi-Fi indicator flashes slowly when the router detects a HiLink device. Press the H button to connect the HiLink device to the router's Wi-Fi. When the Wi-Fi indicator is steady on, press the H button to enable WPS. One Reset button 							
Maximum transmit power	LTE	 B1/B3/B38: 22.5 dBm±1.5 dB B7: 22 dBm±1.5 dB B8/B28: 23 dBm±1.5 dB B20: 23 dBm±1.5 dB 						
	UMTS		dBm±1 dB dBm±1 dB					
	Wi-Fi	2.4G	802.11b	SISO Ant0/Ant1 13.5/14 dBm(±1.5dB) SISO Ant0/Ant1 15.5/16				
			802.11g 802.11n-2 0M	dBm(±1.5dB) SISO Ant0/Ant1 15.5/16 dBm(±1.5dB)				

Item	Descriptio	n											
							SISO Ant0/Ant1 15.5/16 dBm(±1.5dB)						
		5G		*Son	ne e d po	±2 dB) dge wer is		*Some	ower is	5G HF *Some 6 band po reduced	ower is		
				AntO)	Ant1		Ant0	Ant1	Ant0	Ant1		
		11a 6l	M	18	3	16.5	5	17.5	17	20	20		
		11a 54	1M	16.	5	15		16	15.5	18.5	18.5		
		11n 20 MCS0	MC	18	3	16.5	5	17.5	17	20	21		
		11n 20 MCS7	MC	16.	5	15		16	15.5	18.5	18.5		
		11n 40 MCS0	MC	19)	17.5	5	18.5	18	21	21		
		11n 40M MCS7 11ac 20M MCS0		16.	5	15		16	15.5	18.5	18.5		
				18	3	16.5	5	17.5	17	20	20		
				11ac 20M MCS8		16	õ	14.5	5	15.5	15	18	18
					11ac 40M MCS0		19.	5	17.5	5	18.5	18	21
		11ac 4 MCS9	MOI	16	5	14.5	5	15.5	15	18	18		
		11ac 8 MCS0	30M	19)	17.5	5	18.5	18	21	21		
		11ac 8 MCS9	30M	16	5	14.5	5	15.5	15	18	18		
Receiving sensitivity	LTE	Ban d	1.4M (dBr			ИНz Bm)		dBm)	10MHz (dBm)	15MHz (dBm)	20MHz (dBm)		
		B1 / B3 -10: B7 / B8 -10: B20 /			/		-	100.	-97.3	-95.5	-94.3		
				2	-9	19	-	97.3	-94.3	-92.5	-91.3		
					/		-	98.3	-95.3	-93.5	-92.3		
				2.5		9.5	-	97.3	-94.3	/	/		
					/		-	97.3	-94.3	-91.5	-90.3		
		B28				00.5	-	98.8	-95.8	-94	-91.3		

Item	Descriptio	n							
		B32	/	/	-100. 8	-99.8	-96.8	-95.8	
		B38	/	/	-100. 3	-97.3	-95.5	-94.3	
	UMTS	 B1: -107.7 dBm B8: -104.7 dBm 							
Power consumption	Wi-Fi < 12 W	 2.4G 802.11b: -87 dBm 2.4G 802.11g: -75 dBm 2.4G 802.11n 20M: -73.5 dBm 2.4G 802.11n 40M: -70.5 dBm 5G 802.11a: -77 dBm 5G 802.11n 20M: -75.5 dBm 5G 802.11n 40M: -73 dBm 5G 802.11ac 20M: -71 dBm 5G 802.11ac 40M: -66 dBm 5G 802.11ac 80M: -62.5 dBm 							
AC/DC power supply	 AC (input): 100V-240V 50Hz/60Hz DC (output): 12V/1A 								
Dimensions (Maximum)	219 mm (Width) x 138 mm (High) x 25.6 mm (Deep)(not included the socket) 219 mm (Width) x 138 mm (High) x 60.66 mm (Deep)(included the socket)								
Weight	< 330 g (e	excludi	ing the po	ower ada	pter)				
Temperature	 Working temperature: 0°C to 40°C Storage temperature: -20°C to +70°C 								
Humidity	5% - 95%	(non	-condens	ing)					

Item	Description
Certification/C	WEEE
ompliance	CE
	Wi-Fi
	ERP
	ROHS
	REACH
	GCF

2.2 Antenna Specifications

2.2.1 Build-in LTE Antenna

Table 2-2 LTE antenna specifications

Item	Description		
Frequency	FDD LTE B1: 1920-1980 MHz 2110-2170 MHz B3: 1710-1785 MHz 1805-1880 MHz B7: 2500-2570 MHz 2620-2690 MHz B8: 880-915 MHz 925-960 MHz B20: 832-862 MHz 791-821 MHz B28: 703-748 MHz 758-803 MHz B32: NA 1452-1496 MHz TDD LTE B38: 2570-2620 MHz 2570-2620 MHz UMTS B1: 1920-1980 MHz 2110-2170 MHz B8: 880-915 MHz 925-960 MHz		
Input impedance	50 Ω		
Standing wave ratio	< 3		
Main antenna efficiency	 B1: -1.5 dB B3: -1.4 dB B7: -1.7 dB B8: -2.6 dB 		

Item	Description		
	• B20: -2.1 dB		
	• B28: -2.5 dB		
	• B32: -2.6 dB		
	• B38: -1 .8 dB		
	UMTS		
	• B1: -1.5 dB		
	• B8: -2.6 dB		
Diversity antenna	LTE		
efficiency	• B1: -2.3 dB		
	• B3: -2.2 dB		
	• B7: -2.5 dB		
	• B8: -3.1 dB		
	• B20: -2.7 dB		
	• B28: -3.2 dB		
	• B32: -3.3 dB		
	• B38: -2.3 dB		
	UMTS		
	• B1: -2.3 dB		
	• B8: -3.1 dB		
Main antenna gain	LTE		
	• B1/B3/B7/B8/B20/B28/B32/B38: 1~2 dBi		
	UMTS		
	• B1: 2 dBi		
	• B8: 0.8 dBi		
Diversity antenna	LTE		
gain	B1/B3/B7/B8/B20/B28/B32/B38: 1~2 dBi		
TX/RX	1T2R		
Polarization	Linear polarization		

2.2.2 Build-in Wi-Fi Antenna

Table 2-3 Wi-Fi 2.4 GHz antenna specifications

Item	Description
Frequency	2401-2483MHz

Item	Description	
Input impedance	50 Ω	
Standing wave ratio	< 2	
Efficiency	-3 dB	
Gain	2.55 dBi	
Polarization	Linear polarization	

Table 2-4 Wi-Fi 5.0 GHz antenna specifications

Item	Description	
Frequency	5170-5350MHz&5490-5710MHz	
Input impedance	50 Ω	
Standing wave ratio	< 2	
Efficiency	-3 dB	
Gain	2.9 dBi	
Polarization	Linear polarization	

2.3 Software Specifications

 Table 2-5
 Software specifications

Item	Description		
LTE features	DL 2x2 MIMO		
	DL 64QAM, UL 16QAM		
Mobile network	APN management APN auto adapter		
Gateway	Router	 Supports the default route: 0.0.0.0. Supports manual configuration of LAN IP addresses. Supports Address Resolution Protocol (ARP). 	

Item	Description			
	DHCP server	 The DHCP server can be enabled or disabled. The address pool of the DHCP server can be configured. The lease can be configured. The DNS relay under the DHCP server can be enabled. 		
	 Supports NAT and NAPT (compliant with RFC2663, RFC3022, and RFC3027). Supports cone NAT. Supports Symmetric NAT. 			
	ARP			
	ICMP			
	IPv4v6 dual stack IPv6 only (Optional , CLAT for LAN side IPv4 device access Internet) IPv4 only (Optional) NOTE When the CLAT function is enabled, the IPv4 device Internet access service cannot reach the maximum throughput. Under IPv6 only, NAT-base service (such as port forwarding and port triggering) is not available.			
	VPN pass-through			
VPN client	Support L2TP VPN clientSupport PPTP VPN client			
SMS	Writing/sending/receivingWriting/sending/receiving extra-long messages			
Data service	LTE: DL 300 Mbps, UL 100 Mbps DC-HSPA+: DL 42 Mbps, UL 5.76 Mbps HSPA+: DL 21 Mbps (64QAM), UL 5.76 Mbps HSPA: DL 14.4 Mbps, UL 5.76 Mbps WCDMA PS: DL 384 Kbps, UL 384 Kbps Wi-Fi 802.11b/g/n/a/ac			
	Supports multi APNs (Optional, one for data and one for TR-069).			

Item	Description		
Firewall setup	 Firewall enable/disable URL filtering LAN IP filtering Port forwarding (Virtual server) Port triggering (Special Application) DMZ service UPnP service ALG settings 		
LAN	 10/100/1000 Mbps auto-negotiation MDI/MDIX auto-sensing IEEE 802.3/802.3u-compatible 		
Wi-Fi	Broadcasts and hides service set identifiers (SSIDs)		
	Complies with I	EEE 802.11b/g/n/a/ac	
	WPS		
	WMM		
	Encryption	AES, and TKIP + AES	
	Security mode	OpenWPA2-PSKWPA/WPA2-PSK	
	MAC address authenticatio n	 Supports the MAC address authentication whitelist. Supports the MAC address authentication blacklist. Supports a maximum of 32 MAC address entries. 	
	STA	Supports inquiry of STA status.Supports a maximum of 64 connected stations.	
Operator maintenance (Optional)	 Supports TR-069 Amendment III Supports TR-143 Amendment I 		
USIM	PIN management and USIM card authentication		
NTP	Supports daylight saving time (DST) (Optional).		
Maintenance	Supports export of current diagnosis results and operation logs.		

Item	Description		
HUAWEI AI Life APP	View data traffic usage and SMS.Manage connected devices.Change CPE's SSID and password.		
System requirements	Operating system	Windows 8, Windows 8.1, Windows 10, Windows 11 (Not support Windows RT), MAC OS X 10.12, 10.13, 10.14 and 10.15.	
	Web browser	 Microsoft Internet Explorer 9.0 and Microsoft Edge 14.0 with latest updates. Firefox 60.0 with latest updates. Chrome 60.0 with latest updates. Safari 10.0 with latest updates. Opera 51.2 with latest upgrades. 	
	Your computer's hardware system should meet or exceed the recommended system requirements for the installed OS version.		

3 Services and Applications

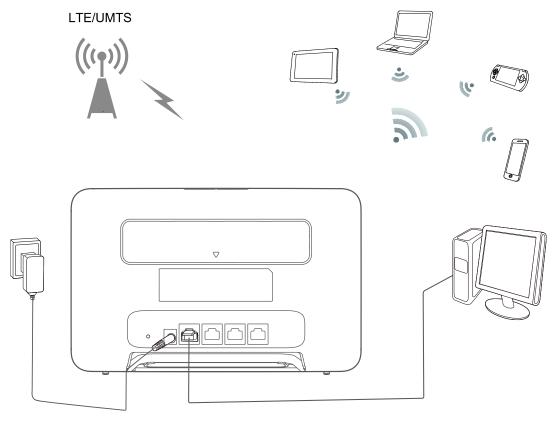
3.1 Data Services

The B535-232a can access the Internet through mobile networks and Ethernet networks. By connecting to the B535-232a using Wi-Fi or a network cable, users can obtain access to high-speed Internet services and establish a local area network (LAN).

3.1.1 Accessing the Internet through a Mobile Network

The B535-232a can access the Internet through mobile networks.





3.1.2 Accessing the Internet through an Ethernet Network

The B535-232a's LAN/WAN port can be connected to a wall-mounted Ethernet port using a network cable.

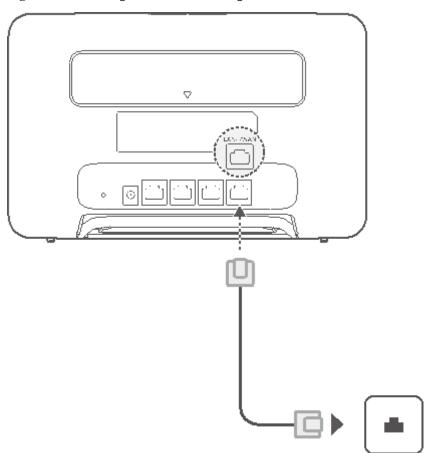


Figure 3-2 Accessing the Internet through an Ethernet network

3.2 SMS

The B535-232a supports message writing/sending/receiving and group sending (up to 50 -contacts at a time).

3.3 Security Service

The B535-232a supports comprehensive and robust security services. It provides a firewall function and PIN protection mechanisms. These features allow users to connect their computers to the Internet and simultaneously protect their computers against security threats from the Internet.

3.3.1 Firewall Service

The B535-232a supports the enabling or disabling of a firewall on the network connection, which protects the device and network from attacks by hackers on the Internet and controls access to the Internet.

3.3.2 MAC Filtering

The B535-232a supports configuration of the Media Access Control (MAC) address to restrict network access.

3.3.3 Wi-Fi Authentication

The gateway supports the following user authentication protocols for Wi-Fi:

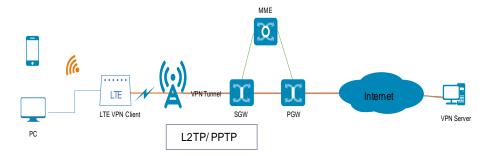
- No encryption
- WPA2-PSK (AES), WPA/WPA2-PSK (TKIP/AES).

3.4 VPN Function

3.4.1 VPN Client

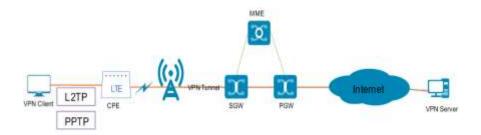
VPN tunneling involves establishing and maintaining a logical network connection (that may contain intermediate hops). On this connection, packets constructed in a specific VPN protocol format are first encapsulated within some other base or carrier protocol, then transmitted between the VPN client and server, and finally decapsulated on the receiving side.

The B535-232a supports L2TP and PPTP tunneling protocols.



3.4.2 VPN Pass-Through

The B535-232a supports L2TP/PPTP VPN pass-through for the LAN side device. The LAN side device can create a VPN tunnel to the VPN server.



3.5 IP Pass-Through

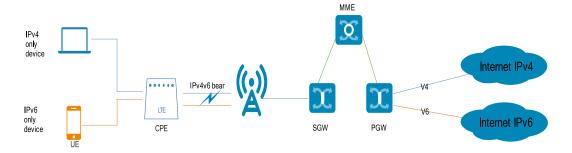
The LTE CPE obtains the WAN IP address and passes it through to the PC (Case 1) or Router (Case 2), and then the PC (Case 1) or Router (Case 2) can directly use the WAP IP address.



3.6 IPv6 Only and IPv4v6 Dual Stack

3.6.1 IPv4v6 Dual Stack

CPE provides dual stack function.



3.6.2 IPv6 Only (CLAT)

The LTE CPE supports IPv6 only with the transition solution CLAT for IPv4 device.

☐ NOTE

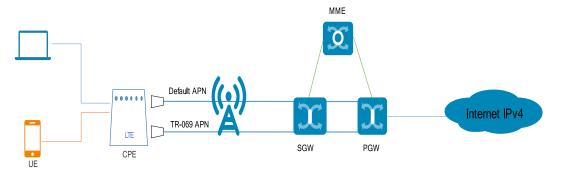
When the IPv6 only (CLAT) function is enabled, NAT-based functions (like DMZ/Port Forwarding/Port tigger) cannot be used.

When an IPv4 device accesses the Internet, the performance is degraded because packets need to be packetized and unpacked. However, IPv6 devices are not affected.

3.7 Multi-APN

The B535-232a supports the establishment and maintenance of two APNs. These two APN connections isolate data and remote management services on an operator's network.

The B535-232a supports an independent APN for CPE internal/TR-069.



3.8 5GHz Preferred

Priority usage of 5 GHz Wi-Fi band over 2.4 GHz band when signal strength is equal to increase connection speeds.

The product will support two SSIDs when 5 GHz preferred is enabled. The first SSID includes 2.4 GHz Wi-Fi and 5GHz Wi-Fi, which provides 5 GHz preferred capabilities. The second SSID ending with '_5G' is an independent 5 GHz Wi-Fi. Customers can choose according to their needs.

The product also supports two SSIDs when 5 GHz preferred is disabled. The first SSID is only 2.4 GHz Wi-Fi, the second SSID is 5 GHz Wi-Fi ending with '_5G'. Customers can choose according to their needs.

3.9 HiLink

- Supports up to 5 HiLink devices to connect to B535-232a through the H button to create an expanded network.
- Supports quick connection between a HiLink device and B535-232a through the H button.

3.10 Customer management

3.10.1 WebUI

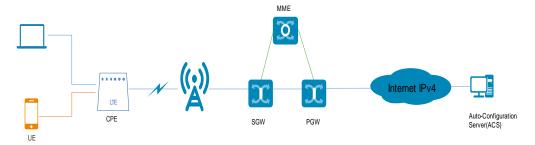
The B535-232a supports local configuration through the Web UI. You can perform device management and network configuration to ensure normal and stable performance.

3.10.2 HUAWEI AI Life app

Scan the QR code (can be found in the Quick Start Guide, giftbox and Web UI) to download the Huawei Al Life app and configure the router from your phone.

3.11 Operator maintenance

The B535-232a supports Operator maintenance through the TR-069. Operator remote manages the CPE software update/parameters configuration via TR-069.



3.12 HOTA

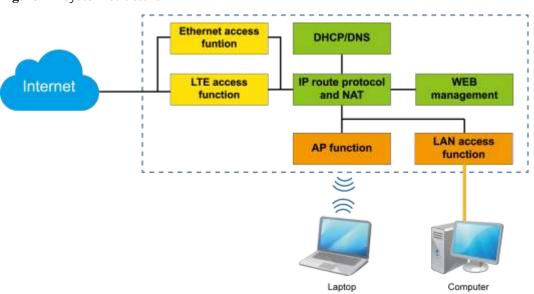
The B535-232a supports the HOTA feature, which allows users to remotely update the device firmware through the HOTA server.

4

System Structure and Scenario Constraints

4.1 System Architecture

Figure 4-1 System structure



The following describes the modules shown in Figure 4-1.

- LTE access function: The B535-232a adopts the LTE access technology at the WAN side
- LAN access function: One 10/100/1000 Mbps high-speed Ethernet ports are provided at the LAN side. The B535-232a provides the switching function for local networking and sharing of the broadband network when it is connected to terminal devices.
- AP function: An 802.11b/g/n/a/ac -compliant Wi-Fi AP interface is provided for wireless networking at home. The interface is compliant with the IEEE 802.11b/g/n/a/ac standard and the WPA/WPA2-PSK, WPA2-PSK security authentication mechanisms.
- DHCP/DNS: The DHCP server dynamically allocates IP addresses to PCs.

- Web-based management: You can configure the B535-232a and modify and view the configuration of the B535-232a.
- IP routing protocol and NAT: The B535-232a has high-speed routing capability. With the built-in NAT, the B535-232a, together with LTE terminals, can provide flexible broadband access solutions and networking schemes.

4.2 Scenario Constraints

The B535-232a is a household wireless broadband access product designed for use in scenarios with relatively few network access devices and relatively low network reliability requirements, such as homes or small office and home offices (SOHOs).

The B535-232a is not an enterprise-grade product. It cannot be used by medium- or large-sized enterprises or in scenarios with high network reliability requirements, such as banks, securities agencies, traffic control, and communications device backhaul.

The B535-232a has the following constraints:

- When the IP Pass-Through mode is enabled, the HOTA function cannot be used.
- When the L2TP/PPTP VPN client function is enabled, the throughput performance will slow down.
- A maximum of 64 devices can be connected to the Wi-Fi in theory; the actual number of devices that can be connected and served depends on actual conditions.

5 Technical References

5.1 Standards and Communication Protocols

5.1.1 Standards and Communication Protocols of the Product

Table 5-1 Standards and communication protocols of the product

Item	Description	
Physical layer	RFC894	
ARP	RFC826	
IP	RFC791, RFC1122, RFC1071, RFC1141, RFC1624, RFC792, RFC950, RFC1256	
ICMP	RFC792, RFC950, RFC1256	
TCP	RFC793	
UDP	RFC768	
DHCP	RFC1531, RFC1533	
NAT	RFC1631, RFC2663, RFC3022, RFC3027	

5.1.2 Standards and Communication Protocols of the Wireless Uu Interface

This device supports 3GPP Release 11.

6 Packing List

Table 6-1 Packing list

Description	Quantity	Remarks
Wireless Gateway	1	Standard
Socket	1	Standard
Power supply adapter	1	Standard
Quick Start	1	Standard
Ethernet cable	1	Optional
Warranty card	1	Optional

The HUAWEI B535-232a wireless gateway has an optional external antenna.