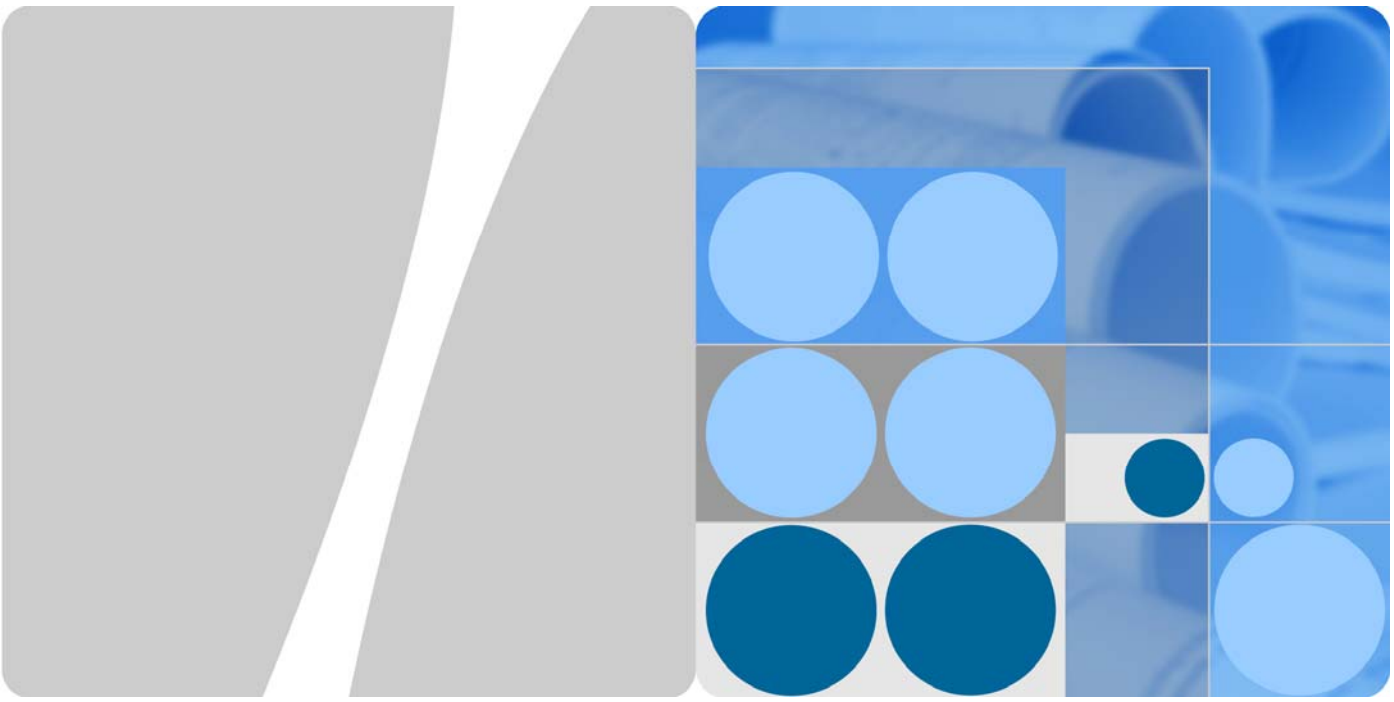
Product Description



HUAWEI B260 Wireless Gateway
V100R001

Issue 02

Date 2009-05-07

HUAWEI TECHNOLOGIES CO., LTD.

HUAWEI

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Some features of the product and its accessories described herein rely on the software installed, capacities and settings of local network, and may not be activated or may be limited by local network operators or network service providers, thus the descriptions herein may not exactly match the product or its accessories you purchase.

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About This Document

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Summary

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

This document includes:

Chapter	Details
1 Product Overview	Describes the appearance and main services of product
2 Features	Describes the product features
3 Technical Specifications	Describes the specifications of product hardware, software and user interface
4 Services and Applications	Describes the main functions and applications
5 System Structure	Describes the product system structure
6 Technical References	Describes Standards and Communication Protocols of the DATACOM Products
7 Packing List	Describes the devices and accessories of the product

NOTE

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

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History

Issue	Details	Date	Author	Approved by
01	Creation	2008-12-26	Li Chenlong	Chen Tianxiong
02	Update	2009-05-07	Mao Dongmei	Chen Tianxiong

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1 Product Overview

The HUAWEI B260 series wireless gateway (hereinafter referred to as B260) is a 3G wireless gateway for family users and enterprise users. You can access the Internet through the gateway and network cable or wireless network. You can also connect with an analog telephone to provide the voice service.

B260 supports the following standards:

- High speed uplink packet access (HSUPA)
- High speed downlink packet access (HSDPA)
- Wideband code division multiple access (WCDMA)
- Global system for mobile communications (GSM)
- General packet radio service (GPRS)
- Enhanced data rates for global evolution (EDGE)

B260 supports wired and wireless network access and analog telephone access, and provides data routing service and analog telephone voice service. The supported service functions are as follows:

- Data service
- Voice function
- Security Service
- Local maintenance management function

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2 Features

The main features of B260 are listed as follows:

- Multiple network environments. The B260 supports HSUPA/HSDPA/WCDMA 2100M/1900M/850M and GSM/GPRS/EDGE 1900M/1800M/900M/850M.
- High speed experience. Supports data services of maximum rate of 5.76Mbit/s HSUPA, 7.2Mbit/s HSDPA, 384kbit/s WCDMA, 236.8kbit/s EDGE, and 85.6kbit/s GPRS.
- Receiving diversity and load equalizer. Shows the maximum coverage of the network and exerts the highest value of the network.
- Built-in DHCP Server, DNS RELAY and NAT. Provides high-speed routing capability.
- Comprehensive and robust security services. Provides instant protection to block potential security risks and intrusion attempts.
- Supports Windows 2000, Windows XP, Windows Vista. Compatible with nearly all modern laptops and PCs.
- Intuitionistic and convenient Web-based management.
- Ultrathin and artful appearance. Satisfies the portability and removability of floating working.
- Built-in WCDMA and WLAN high gain antenna. Ensured performance and easy portability. It is optional to select an external antenna, which is to ensure the normal use when the signal strength is weak.
- User-friendly design of LED indicator. Easy to observe the status of equipment.

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3 Technical Specifications

3.1 Hardware Specifications

Table 3-1 Technical specifications of the B260

Item	Description	
Technical standard	WAN: HSUPA/HSDPA/WCDMA/EDGE/GPRS/GSM	
	LAN: IEEE 802.3/802.3u	
	WLAN: IEEE 802.11b/g	
Working frequency band	HSUPA/HSDPA/WCDMA/EDGE/GPRS/GSM	• HSUPA/HSDPA/WCDMA (UMTS FDD Band I) 2100M: 1920-1980MHz/2110-2170MHz (UL/DL) • HSUPA/HSDPA/WCDMA (UMTS FDD Band II) 1900M: 1850-1910MHz/1930-1990MHz(UL/DL) • HSUPA/HSDPA/WCDMA (UMTS FDD Band VIII) 900M: 880 -915 MHz/925 -960 MHz (UL/DL) • HSUPA/HSDPA/WCDMA (UMTS FDD Band V) 850M: 824 -849 MHz/869 -894MHz (UL/DL) • EDGE/GPRS/GSM 1900M: 1850-1910MHZ/1930-1990MHZ (UL/DL) • EDGE/GPRS/GSM 1800M: 1710-1785MHZ/1805-1880MHZ (UL/DL) • EDGE/GPRS/GSM 900M: 880-915MHZ/925-960MHZ (UL/DL) • EDGE/GPRS/GSM 850M: 824-849MHZ/869-894MHZ (UL/DL)
	WLAN	• 2.401 GHz – 2.495 GHz

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External interface	• Ethernet interface (RJ45): 10/100Base-TX • Telephone interface (RJ11) • Power interface (USB, B kind) • Reset button • External antenna interface (SMA) • Aerial switch	
LED indicator	• One power indicator • One WLAN indicator • One indicator for signal strength • One indicator for network mode • One LINK/ACTIVE indicator for Ethernet Interface	
Maximum transmit power	WCDMA	>24dBm (+1/-3)
	GSM	• 850/900M, 33dBm (+2/-2) • 1800/1900M, 30dBm (+2/-2)
	WLAN	• 802.11g: 16dBm (+2/-2) • 802.11b: 18dBm (+2/-2)
Receiving sensitivity	WCDMA	• Band V: dBm/3.84 MHz; -115<REFSENS>; -104.7<REF-or> • Band II: dBm/3.84 MHz; -115<REFSENS>; -104.7<REF-or> • Band I: dBm/3.84 MHz; -117<REFSENS>; -106.7<REF-or>
	GSM	850/900/1800/1900M, better than -102dBm
	WLAN	-65 dBm@54Mbps, typical for 802.11g -76 dBm@11Mbps, typical for 802.11b -82 dBm@1Mbps, typical for 802.11b
Power consumption	<8 W	
AC/DC power supply	• AC: 90 V - 300 V • DC: 5 V, 2 A	
Dimensions (W×D×H)	158 mm × 105 mm × 27 mm	
Weight	<250 g (The power supply adapter is not included)	
Temperature	• Working temperature: -10℃- +45℃ • Storage temperature: -20℃ - +70℃	
Humidity	5% - 95%	
Placement	Horizontal, vertical, and wall-mounted	

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3.2 Antenna Specifications

3.2.1 Build-in Antenna

Table 3-2 GSM/WCDMA main antenna specifications

Item	Description
Frequency	• 824 MHz - 960 MHz • 1710 MHz - 1990MHz • 2110 MHz - 2170MHz
Input impedance	50 Ω
Standing wave ratio	< 3.0 (after being matched) All frequency points
H side gain	≥ 1dBi (horizontal level peak value)
Power capacity	4W (average value, GSM/DCS/PCS/WCDMA signal) 40W (GSM/DCS/PCS/WCDMA pulse signal, with the width of 2μs - 8μs and duty ratio of 1% – 5%)
Polarization	Linear polarization (vertical)

Table 3-3 WCDMA sub diversity antenna specifications

Item	Description
Frequency	869 - 960MHz 1805 - 1880MHz 2110 - 2170MHz
Input impedance	50 Ω
Standing wave ratio	< 3.0 (after being matched, all frequency points)
Gain	≥ 0dBi (horizontal level peak value)
Power capacity	4W (average value, GSM/DCS/PCS/WCDMA signal) 40W (GSM/DCS/PCS/WCDMA pulse signal, with the width of 2μs – 8μs and duty ratio of 1% – 5%)
Polarization	Linear polarization (vertical)

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Table 3-4 WLAN main diversity antenna specifications

Item	Description
Frequency	2.4 GHz - 2.483 GHz
Input impedance	50 Ω
Standing wave ratio	< 2.5
H side gain	Horizontal level minimum value: >-2dBi Horizontal level average value: >-1dBi
Power capacity	300mW (average value, WLAN signal) 3W (WLAN pulse signal, with the width of 2μs – 8μs and duty ratio of 1% – 5%)
Polarization	Linear polarization (vertical)

3.2.2 External Antenna Specifications (Optional)

Table 3-5 External GSM/ WCDMA main diversity antenna specifications

Item	Description
Frequency	824 - 960MHz 1710 - 1990MHz 2110 - 2170MHz
Input impedance	50 Ω
Standing wave ratio	< 3 (after being matched, all frequency points)
H side gain	≥ 2dBi (horizontal level peak value)
Power capacity	4W (average value, WCDMA signal) 100W (WCDMA pulse signal, with the width of 2μs – 8μs and duty ratio of 1% – 5%)
Polarization	Linear polarization (vertical)
Length of the connection cable	1 m
Interface standard	SMA-C-J1.5

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3.3 Software Specifications

Table 3-6 Software specifications

Item	Description
Gateway	**Router**: • Supports static routing • Supports the default routing (the routing address is 0.0.0.0). You can set the WAN connection to the default routing to generate default routing table items • Supports the hybrid mode of bridging and routing
	Supports ARP
	Supports ICMP
	Supports DNS Relay
	NAT: • Supports NAT, NAPT (compliant with RFC2663, RFC3022 and RFC3027) • Supports fragment message identification for normal NAT • Supports ALG • Supports NAT traverse of FTP, MSN and NetMeeting • Supports NAT traverse of VPN related protocol (PPTP and L2TP)
	DHCP Server: • The default IP addresses of the DHCP server is from 192.168.1.100 to 192.168.1.200. The default gateway address is 192.168.1.1 • The default DHCP lease is 24 hours • The DHCP Server can be enabled or disabled • The address pool of the DHCP server can be configured. • The lease can be configured • The IP address status can be displayed, such as the host name, MAC address, IP address, and remaining lease
Data service	**HSUPA**: DL 7.2Mbit/s UL 5.76Mbit/s **HSDPA**: DL 7.2Mbit/s UL 384kbit/s **WCDMA PS**: DL 384kbit/s UL 384kbit/s **WCDMA CS**: DL 64kbit/s UL 64kbit/s **EDGE**: DL 236.8kbit/s UL 236.8kbit/s **GPRS**: DL 85.6kbit/s UL 85.6kbit/s **GSM CS**: DL 14.4kbit/s UL 14.4kbit/s

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Item	Description
	WLAN: 802.11g: 54Mbit/s, 48Mbit/s, 36Mbit/s, 24Mbit/s, 18M bit/s, 12Mbit/s, 9Mbit/s, 6Mbit/s 802.11b: 11Mbit/s, 5.5Mbit/s, 2Mbit/s, 1Mbit/s
Firewall	• Firewall Switch • LAN MAC Filter • LAN IP Filter • Virtual Server • DMZ Service • UPnP Setting • Remote Web Management
LAN	10Mbit/s and 100Mbit/s auto-negotiation
	MDI/MDIX auto-sensing
	IEEE802.3/802.3u is compatible
WLAN	SSID broadcast and hiding are supported.
	Authentication: • Open System authentication • Shared Key authentication • ASCII • 64/128-digit WEP encryption • 256-digit WPA-PSK/ WPA2-PSK encryption • TKIP ciphering algorithm • AES ciphering algorithm • TKIP and AES ciphering algorithm synchronously
	MAC address authentication: • White list • Black list • The preceding two lists cannot coexist. • Up to 16 MAC address items.
	Ratio adjustment: • Automatically • Manually
	STA management: • Supports inquiry of STA status • Supports limit of access users (up to 32 users)

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Item	Description
System requirement	CPU: Pentium 500 MHz or above Memory: 128 MB RAM or above Hard disk: 50 MB free disk space OS: Windows 2000/Windows XP/Windows Vista Display resolution: 800 × 600 or above (1024 × 768 is recommended) Internet Explorer: IE 6.0 or above/Firefox 1.5 or above/Netscape 8.0 or above

3.4 User Interface Parameters

Table 3-7 User interface parameters

Item	Description	
Gateway	Parameter configuration	**LAN**: • DHCP • IP address
		WLAN: • Wireless status • SSID • Mode (802.11 b/g) • Channel • Hidden SSID • Tx Rate • Authentication (Open System and Shared Key) • Security (WEP and WPA) • Access list (MAC) • Country
		WAN: • WAN connection profile, such as PPP user name, password, APN, and IP address • PPP dial-up mode • Network searching mode • Frequency band type • Connection type

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Item	Description	
		Firewall: • Firewall Switch • LAN MAC Filter • LAN IP Filter • Virtual Server • DMZ Service • UPnP Setting • Remote Web Management
	Status	• Signal strength • Network type • Network connection status • SIM card status • Operator name, system mode, and so on
	Other functions	**Network connection settings**: • Automatic network selection and registration • Manual network selection and registration
		Selection of network connection types: • 3G preferred • 2G preferred • 3G only • 2G only
		PIN management: • Enable/Disable PIN verification • Enter/Modify PIN • Unlock PIN

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4 Services and Applications

4.1 Wireless Gateway

4.1.1 Data Services

The B260 supports the high-speed data service. It is used for 3G wireless broadband network access. You can send and receive emails, surf the Internet.

Small-Size LAN

You can connect the B260 with a terminal device through the WLAN or one Ethernet interface in the Small Office Home Office (SOHO) to provide data services.

The B260 also supports the external concentrator, Ethernet switch, or router. To form a LAN with multiple PCs, you can extend the Ethernet interfaces through the concentrator or Ethernet switch.

Packet Switched Domain Data Service

The B260 supports several types of data services, such as HSUPA, HSDPA, WCDMA, EDGE, and GPRS. You can set the data service type in the networking settings on the Web management interface.

After the parameters are correctly configured on the Web management interface, the B260 creates normal data service in automatic, manual, or on demand mode, according to the dial-up type.

The B260 supports three connection types, such as the automatic, manual and on demand types.

- For the automatic type, the B260 creates the data service connection automatically after the B260 is normally started, if the network and the SIM card are available.
- For the manual type, you need to log in to the webpage and dial the number manually to create a connection after the B260 is normally started, if the network and the SIM card are available. If you want to disconnect from the network, you needs to disconnect it manually.
- For the on demand type, the B260 creates the connection automatically if there is data accessing the Extranet. When the time of no traffic up to the setting Max Idle time, the connection disconnects automatically.

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4.1.2 Security Service

The B260 supports comprehensive and robust security services: Firewall function and PIN protection mechanisms. These features together allow users to connect their computers to the Internet and simultaneously protect their computers from the security threats of the Internet.

Firewall Service

The B260 supports the following firewall services:

- Firewall Switch: Enable or disable the firewall on the network connection.
- LAN MAC Filter: Specify the Media Access Control (MAC) address to restrict network access.
- LAN IP Filter: Block specific IP address so that they cannot be accessed from computers in the local network.
- Virtual Server: Enable external computers to access WWW, FTP or other services provided by the LAN.
- DMZ Service: Allow one local computer to be exposed to the Internet. When you wish to use a special-purpose Internet service.
- UPnP Service: Allow other network users to control your gateway's network features to realize the intellectual interconnection.
- Remote Web Management: Allow the access and control of the gateway either from the home network or from the Internet.

User Authentication

The gateway supports the following user authentication protocols:

- No Encryption
- WEP
- WPA-PSK
- WPA2-PSK

PIN protection

If the PIN code protection is enabled, you need to validate the PIN code each time when you restart the gateway and log in to the management page.

4.2 Voice Services

The B260 provides a telephone interface, which can be used for connecting a telephone for the voice service. At most three extensions can be connected.

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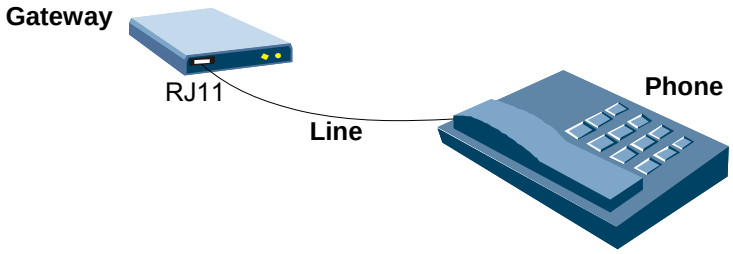

Figure 4-1 Connection between the B260 and phone

4.3 Local management and maintenance

The B260 supports local configuration to accomplish device management, network configuration and ensure normal and stable performance. .

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5 System Structure

Figure 5-1shows the system architecture.

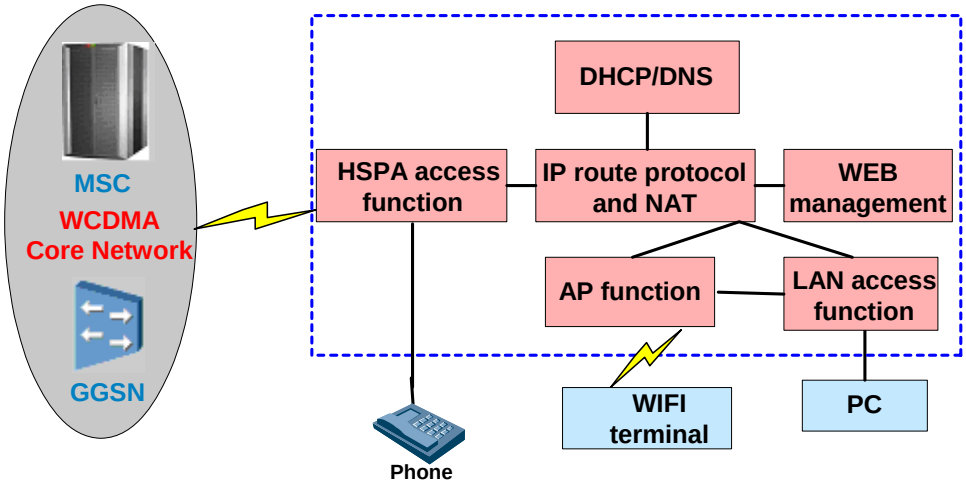

Figure 5-1 System architecture

The following describes modules shown in Figure 5-1.

- HSPA access: The B260 adopts the HSPA access technology at the WAN side. The B260 can access the 3G broadband packet-based network through the point-to-point protocol (PPP) dial-up.
- LAN access: One 10/100Mbit/s high-speed Ethernet interfaces are provided at the LAN side. The B260 provides the switching function for local networking and sharing of broadband network when it is connected to terminal devices.
- AP function: An 802.11 b/g-compliant WLAN AP interface is provided, used for wireless networking at home. The interface is compliant with the IEEE802.11 b/g standard and the WPA-PSK /WPA2-PSK/WEP security authentication.
- The voice service by directly connecting a telephone is supported.
- DHCP/DNS: The DHCP server dynamically allocates IP addresses to PCs. The DNS server parses domain names.
- Web management: You can configure, modify and query the configuration information of the B260.

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- Routing and NAT: High-speed routing capability. With the built-in NAT, the B260, together with 3G terminals, can provide flexible broadband access solutions and networking schemes.

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6 Technical References

6.1 Standards and Communication Protocols

6.1.1 Standards and Communication Protocols of the DATACOM Products

Table 6-1 Standards and communication protocols of the DATACOM products

Item	Description
Physical layer	RFC894
PPP	RFC1915, RFC1962, RFC1994, RFC2433, RFC2759, RFC1332, RFC1877, RFC1471, RFC1570, RFC2484, RFC1717, RFC1934, RFC1990, RFC1334, RFC1974, RFC1661
ARP	RFC826
IP	RFC791, RFC1122, RFC1071, RFC1141, RFC1624, RFC792, RFC950, RFC1256
ICMP	RFC792, RFC950, RFC1256
TCP	RFC793
UDP	RFC768
DHCP	RFC1531, RFC1533
NAT	RFC1631

6.1.2 Standards and Communication Protocols of the Wireless Um Interface

The wireless Um interface conforms to the WCDMA R99, R4, R5 standards.

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Table 6-2 Standards and communication protocols of the wireless Um interface

Item	Description
Layer1 Specifications (Physical)	Physical Layer – General Description TS 25.201 (V3.1.0) Physical Channels and Mapping of Transport Channels onto Physical Channels (FDD) TS 25.211 (V3.5.0) Multiplexing and Channel Coding (FDD) TS 25.212 (V3.5.0) Spreading and Modulation (FDD) TS 25.213 (V3.4.0) Physical Layer – Procedures (FDD) TS 25.214 (V3.5.0) Physical Layer – Measurements (FDD) TS 25.215 (V3.5.0)
Layer 2 Specifications (MAC/RLC)	MAC Protocol Specification TS 25.321 (V3.6.0) RLC Protocol Specification TS 25.322 (V3.5.0)
Layer 3 Specifications (RRC)	UE Interlayer Procedures in Connected Mode TS 25.303 (V3.6.0) UE Procedures in Idle Mode TS 25.304 (V3.5.0) RRC Protocol Specification TS 25.331 (V3.5.0)
Layer 3 NAS/Core Network (MCM)	Service accessibility TS 22.011(Release 5, June 2005) Non-Access-Stratum (NAS) functions related to Mobile Station (MS) in idle mode TS 23.122 (Release 5, June 2005) Mobile Radio Interface Signaling Layer 3-General Aspects TS 24.007 (Release 5, June 2005) Mobile Radio Interface Layer 3 Specification-Core Network TS 24.008 (Release 5, June 2005) PP SMS Support on Mobile Radio Interface TS24.011 (Release 5, June 2005)
GSM Protocol Specifications	Mobile Radio Interface Layer 3 Specification, Radio Re source Control Protocol TS 04.18 (V8.10.0) Mobile Station - Base Station System (MS - BSS) interface; Data Link (DL) Layer Specification TS 04.06 (V8.11.0) Digital Cellular Telecommunications System (Phase 2+); Multiplexing and Multiple Access on the Radio Path TS 05.02 (V8.9.0) Technical Specification Group GERAN; Channel coding TS 05.03 (V8.6.1) Digital Cellular Telecommunications System (Phase 2+); Radio Subsystem Link Control TS 05.08 (V8.a.0) Digital Cellular Telecommunications System (Phase 2+); Radio Subsystem Synchronization TS 05.10 (V8.8.0)

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Item	Description
GPRS Protocol Specifications	Overall Description of the GPRS Radio Interface; stage 2 TS 3.64 (V8.8.0) Mobile Radio Interface Layer 3 Specification TS 04.08 (V8.0.0) Mobile Radio Interface Layer 3 Specification: Radio Resource Control Protocol TS 04.18 (V8.10.0) General Packet Radio Service (GPRS): Mobile Station (MS) – Base Station System (BSS) interface; Radio Link Control / Medium Access Control (RLC/MAC) protocol TS 04.60 (V8.10.0) Mobile Station - Serving GPRS Support Node (MS-SGSN) Logical Link Control (LLC) Layer Specification TS 04.64 (V8.6.0) Mobile Station - Serving GPRS Support Node (MS-SGSN); Sub-network Dependent Convergence Protocol (SNDCP) TS 04.65 (V8.1.0) Multiplexing and Multiple Access on the Radio Path TS 05.02 (V8.9.0) Channel Coding TS 05.03 (V8.6.1) Modulation TS 05.04 (V8.3.0) Radio Transmission and Reception TS 05.05 (V8.10.0) General Packet Radio Service (GPRS); Stage 1 TS 22.060 (V3.5.0) Mobile Execution Environment (MexE) TS 23.057 (V3.4.0) General Packet Radio Service (GPRS) Service description; stage 2 TS 23.060 (V8.8.0)
General Specifications	UE Capability Requirements TR 21.904 (V3.3.0) UE Radio Access Capabilities TR 25.926 (V3.2.0) Vocabulary TR 25.990 (V3.0.0) Radio Interface Protocol Architecture TS 25.301 (V3.6.0) Services Provided by the Physical Layer TS 25.302 (V3.7.0) Synchronization in UTRAN Stage 2 TS 25.402 (V3.4.0
Performance/ Test Specifications	UE Radio Transmission and Reception (FDD) TS 25.101 (V3.5.0) Common Test Environments for User Equipment (UE) TS 34.108 (V3.2.0) Special Conformance Testing Functions TS 34.109 (V3.2.0) Terminal Conformance Specification TS 34.121 (V3.3.0) User Equipment (UE) Conformance Specification; Part 1: Protocol Conformance TS 34.123-1 (V3.2.0) User Equipment (UE) Conformance Specification; Part 2: Protocol Conformance TS 34.123-2 (V3.2.0)

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Item	Description
Performance/ Test Specifications	Terminal Conformance Specification, Radio Transmission and Reception (FDD) TS 34.121 (V3.3.0) User Equipment (UE) Conformance Specification; Part 1: Protocol Conformance TS 34.123-1 (V3.2.0) S48 User Equipment (UE) Conformance Specification; Part 2: Implementation Conformance Statement (ICS) Specification TS 34.123-2 (V3.2.0)
USIM Specifications	SIM and IC Card Requirements TS 21.111 (V3.3.0) 3rd Gen. Partnership Proj Tech. Spec. Group Terminals; USIM App. Toolkit (USAT) TS 31.111 (V3.3.0)

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7 Packing List

Table 7-1 shows the devices and accessories of the B260.

Table 7-1 Packing list

Description	Quantity	Remarks
Gateway	1	Standard
Power supply adapter	1	Standard
User Guide	1	Standard
Warranty card	1	Optional
1.5m Ethernet cable	1	Optional
External battery	1	Optional
Phone cable	1	Optional
External Antenna	1	Optional

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A Acronyms and Abbreviations

3G	The Third Generation
A	
AC	Alternating Current
ARP	Address Resolution Protocol
AP	Access Point
APN	Access Point Name
C	
CDMA	Code Division Multiple Access
D	
DHCP	Dynamic Host Configuration Protocol
DNS	Domain Name Server
DL	down link, downlink
E	
EDGE	Enhanced Data rates for GSM Evolution
G	
GSM	Global System for Mobile communications
GPRS	General Packet Radio Service
GGSN	Gateway GPRS Support Node
H	
HSPA	High Speed Packet Access
HSDPA	High Speed Downlink Packet Access
HSUPA	High Speed Uplink Packet Access
HLR	Home Location Register

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I	
IP	Internet Protocol
ICMP	Internet Control Message Protocol
L	
LAN	Local Area Network
LED	Light Emitting Diode
L2TP	Layer 2 Tunneling Protocol
M	
MSC	Mobile Switching Center
N	
NAT	Network Address Translation
P	
PSTN	Public Switched Telephone Network
POTS	Plain Old Telephone Service
PPTP	Point to Point Tunneling Protocol
R	
RTT	Radio Transmission Technology
S	
SOHO	Small Office Home Office
SCP	Service Control Point
SGSN	Serving GPRS Support Node
SDRAM	Synchronous Dynamic Random Access Memory
T	
TKIP	Temporal Key Integrity Protocol
U	
UMTS	Universal Mobile Telecommunications System
UL	up link, uplink
V	
VLR	Visitor Location Register
VPN	Virtual Private Network
W	
WAN	Wide Area Network

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WCDMA	Wideband CDMA
WI-FI	Wireless Fidelity

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