Product name	Confidentiality level
B310s-22	CONFIDENTIAL
Product version	Total 9 pages
V3.3	

B310s-22TCPU-V200R001B321D03SP03C32

Firmware Release Notes V3.3

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Approved by	Panlianggang	Date	2017-02-22

Huawei Technologies Co., Ltd.

Revision Record

Date	Revision version	FW-WebUI/HiLink Version	Change Description	Author
2015-07-08	1.0	FW 21.311.03.00.32	The 1st Version	Guo xiaofei
2016-04-26	2.0	FW 21.316.01.00.32	The 2nd Version	Zhaokai
2016-11-14	3.0	FW 21.321.03.00.32	The 3rd Version	Praveen TC
2016-11-28	3.1	FW 21.321.03.01.32	The 4th Version	Praveen TC
2017-02-01	3.2	FW 21.321.03.02.32	The 5th Version	Giriraj S Pawar
2017-02-22	3.3	FW 21.321.03.03.32	The 6th Version	Avinash kumar

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Abbreviations	description

1 Main Features

The B310s-22 mainly supports the following features:

- LTE FDD (DL) data service of up to 150 Mbit/s

- LTE FDD (UL) data service of up to 50 Mbit/s

- LTE TDD (DL) data service of up to 112 Mbit/s

- LTE TDD (UL) data service of up to 10 Mbit/s

- DC-HSPA+ (DL) data service of up to 42 Mbit/s

- HSPA+ (DL) data service of up to 21.6 Mbit/s

- HSDPA (DL) data service of up to 14.4 Mbit/s

- HSUPA (UL) data service of up to 5.76 Mbit/s

- UMTS data service of up to 384 kbit/s

- EDGE data service of up to 236.8 kbit/s

- EDGE data service of download to 296 kbit/s

- GPRS data service of up to 85.6 kbit/s

- PS domain data service based on LTE/UMTS/GSM

- SMS based on CS/PS domain of GSM and UMTS, CS domain of LTE

- Wi-Fi

- Support for HUAWEI Mobile WiFi App

- Press and Play

- IPv6v4 /IPv4 dual stack

- Built-in DHCP Server, DNS RELAY and NAT

- Online software upgrade

- Traffic statistic

- LED indicators

- Built-in UMTS and WLAN high gain antenna LTE/GSM

- Windows XP SP3, Windows Vista SP1/SP2, Windows 7, Windows 8, Windows 8.1 (does not support Windows RT), MAC OS X 10.7, 10.8 and 10.9 with latest upgrades

2 Hardware

2.1 Version Description

Hardware Version: WL1B310FM03 (B310s-22)

Platform & Chipset: Balong Hi6921 & AR 8035

2.2 Hardware Specifications

Item	Specifications	
Technical standard	WAN: LTE/ DC-HSPA+/HSPA+/HSPA/UMTS/EDGE/GPRS/GSM	
	WLAN: IEEE 802.11b/g/n	
Operating frequency	LTE: B1/B3/B7/B8/B20/B38	
	HSPA+/HSPA/UMTS: B1/B8	
	EDGE/GPRS/GSM: 1900/1800/900/850 MHz	
	WLAN: 2.4 GHz	
Internal memory	512 MB Flash,256 MB Memory	
Maximum transmitter power	UMTS: 24 (+1/-3) dBm	
	WLAN	802.11b: 16 dBm
		802.11g: 17 dBm
		802.11n: 17 dBm
Receiver sensitivity	UMTS: Confirm to 3GPP Requirements	
	WLAN 802.11b	-76 dBm@11 Mbit/s
		-82 dBm@1 Mbit/s
	WLAN 802.11g: -65 dBm@54 Mbit/s	
	WLAN 802.11n: -64 dBm@65 Mbit/s	
WLAN speed	802.11b: Up to 11 Mbit/s	
	802.11g: Up to 54 Mbit/s	
	802.11n: HT40 MCS15(300Mbit/s), HT20 MCS15(144.4Mbit/s)	
Maximum power consumption	12 W	
Power supply	AC: 100–240 V	
	DC: 12 V, 1 A	
External interfaces	WAN/LAN: 1 RJ45,GE FXS:1 RJ11	

Item	Specifications		
	SIM card interface: standard 6-pin SIM card interface		
Indicators	Mode:	cyan: 4G mode	
		blue: 3G mode	
		yellow: 2G mode	
		green:WAN mode	
		Red: No SIM/USIM card is found, the PIN is not verified, or the SIM/USIM card is not working properly. Failed to connect to a mobile network	
	Signal	One to three: Weak to Strong signal	
		Off: out signal	
	WPS/WIFI	White Blink: WPS open	
		White Steady	
		On: 2.4G WiFi is opened	
		Off: 2.4G WiFi is closed	
	LAN	On/Off	
	Power	On/Off	
Button	Power switch, Reset switch, WPS switch		
Antenna	● Built-in GSM/UMTS/LTE main diversity antenna ● Built-in GSM/UMTS/LTE diversity antenna ● Built-in WLAN antenna		
Dimensions (D × W × H)	180 mm x126 mm x38mm		
Weight	about 226 g (Does not contain the power adapter)		
Temperature	Operating: 0℃ to +40℃		
	Storage: -20℃ to +70℃		
Humidity	5% to 95% (non-condensing)		

2.3   Improvements in the Previous Version

Index	Case ID	Issue Description
NA		

2.4   Known Limitations and Issues

Index	Case ID	Issue Description
NA		

3 Firmware

3.1   Version Description

Firmware Version:	21.321.03.03.32
Baseline information	BalongV700R110C30B321
OS	VxWorks 6.8+linux 3.4.5

3.2   Firmware Specifications

Item	Description
SMS	• Writing/Sending/Receiving • Sending/Receiving extra-long messages • Storage: Up to 500 messages can be saved in the internal memory • New message prompt
Network connection setup	• APN management: create, delete and edit. • Set up network connection
WLAN setup	• SSID broadcasting and hiding • Open system and shared key authentication • ASCII and HEX keys • 64/128-bit WEP encryption • 256-bit WPA-PSK and WPA2-PSK encryption • AES encryption algorithm • TKIP and AES integrated encryption algorithm • Automatic adjustment of ratios • Display STA status • WLAN MAC filter
Firewall setup	• Firewall Switch • LAN IP Filter • Virtual Server • DMZ Service

Item	Description
NAT setup	- CONE NAT - Symmetric NAT - ALG - VPN passthrough
DHCP setup	- DHCP server enabling and disabling - Address pool of the DHCP server setup - DHCP lease time setup
IPv6v4/IPv4 dual stack	DHCPv6/v4 server and client DNSv6/v4 server and client Display IPv6/v4 WAN address
Other	Network connection settings: - Automatic network selection and registration - Manual network selection and registration Network status display: signal, operator name, system mode, and so on. Selection of network connection types, for example: - Auto,2G only,3G only,4G only PIN management: activate/deactivate PIN, PIN lock, changing PIN, unblocking by using the PUK.
System requirement	- Windows XP SP3, Windows Vista SP1/SP2, Windows 7, Windows 8 (does not support Windows RT) - Mac OS X 10.6, 10.7 and 10.8 with latest upgrades - Your computer's hardware system should meet or exceed the recommended system requirements for the installed version of OS

3.3   Improvement in the Previous Version

Index	Case ID	Issue Description
NA		

3.4   Known Limitations and Issues

Index	Case ID	Issue Description
1	Unrealized Features	NA

4 WebUI

4.1 Version Description

WebUI Version: 17.100.09.00.03

4.2 WebUI/HiLink Specifications

Item	Specifications
NA	

4.3 Improvement in the Previous Version

Index	Case ID	Issue Description
NA		

4.4 Known Limitations and Issues

Index	Case ID	Issue Description
1	Unrealized Features	NA

5 Software Vulnerabilities Fixes

Software/Module name	Version	CVE ID	Vulnerability Description	Solution
NA				Baseline already has finished developing with security issues, not relate to this one.