Product name	Confidentiality level
B310s-927	CONFIDENTIAL
Product version	Total 9 pages
V2.0	

B310s-927TCPU-V200R001B318D01SP00C 93 Release Notes

V2.0

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Revision Record

Date	Revision version	FW-WebUI/HiLink Version	Change Description	Author
2015-12-8	1.0	FW 21.311.05.01.93	The 1st version	Guo xiaofei
2016/8/26	2.0	FW 21.318.01.00.93	The 2nd version	Guo xiaofei

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Abbreviations	description

1 Main Features

The B310s-927 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

- IPv4 single 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: WL1B310TM (B310s-927)

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: B3/B40	
	HSPA+/HSPA/UMTS: B1(2100) /B8(900) MHz	
	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: 19 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:	21.318.01.00.93
Baseline information :	BalongV700R110C30B318
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
IPv4 single stack	DHCPv4 server and client DNSv4 server and client Display IPv4 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: • Support LTE networks ON/OFF
	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	Feature Description
1	*delete command *127#,*128#*
2	*Update FW to support new and old MCP in B310s-927*
3	*display "Uplink/Downlink Rate","Uplink/Downlink Volume" when enter Data Plan page.*

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

4.3 Improvement in the Previous Version

Index	Case ID	Issue Description
1	New Features	*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.