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B310s-927 Firmware Release Notes

V4.0

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Revision Record

Date	Revision version	FW-WebUI/HiLink Version	Change Description	Author
2014-09-01	1.0	FW21.110.99.01.00	The 1 st Version	B310s-927 Team
2014-9-24	2.0	FW21.110.99.02.00	The 2 st Version	B310s-927 Team
2014-11-07	3.0	FW21.110.99.03.00	The 3 st Version	B310s-927 Team
2015-05-12	4.0	FW21.180.99.01.00	The 4 st Version	B310s-927 Team

Table of Contents

1	Main Features	4
2	Hardware.....	5
2.1	Version Description	5
2.2	Hardware Specifications	5
2.3	Improvements in the Previous Version	6
2.4	Known Limitations and Issues	6
3	Firmware.....	7
3.1	Version Description	7
3.2	Firmware Specifications	7
3.3	Improvement in the Previous Version	8
3.4	Known Limitations and Issues	9
4	WebUI.....	9
4.1	Version Description	9
4.2	WebUI/HiLink Specifications	9
4.3	Improvement in the Previous Version	9
4.4	Known Limitations and Issues	9
5	Software Vulnerabilities Fixes	9



B310s-927 Firmware Release Notes V4.0

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: 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	
	GSM: B2/B3/B5/B8	
	WLAN: 2.4 GHz	
Internal memory	256 MB Flash,128 MB Memory	
Maximum transmitter power	UMTS: 24 (+/-3) dBm	
	WLAN	802.11b: 20 (+/-3) dBm
		802.11g: 17 (+/-3) dBm
		802.11n: 17 (+/-3) 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	
	SIM card interface: standard 6-pin SIM card interface	



Item	Specifications	
Indicators	Mode:	cyan: 4G mode blue: 3G mode yellow: 2G mode green:WAN mode Red: Error
	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	<ul style="list-style-type: none"> • Built-in GSM/UMTS/LTE main diversity antenna • Built-in GSM/UMTS/LTE diversity antenna • Built-in WLAN antenna 	
Dimensions (D x W x H)	180 mm x126 mm x38mm	
Weight	about 226 g (Does not contain the power adapter)	
Temperature	Operating: 0°C to +40°C	
	Storage: -20°C to +70°C	
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:	21.180.99.01.00
Baseline information	BalongV700R110C30B180
OS	VxWorks 6.8+linux 3.4.5

3.2 Firmware Specifications

Item	Description
SMS	<ul style="list-style-type: none">• Writing/Sending/Receiving• Sending/Receiving extra-long messages• Storage: Up to 500 messages can be saved in the internal memory of the B310s-927.• New message prompt
Network connection setup	<ul style="list-style-type: none">• APN management: create, delete and edit.• Set up network connection
WLAN setup	<ul style="list-style-type: none">• 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	<ul style="list-style-type: none">• Firewall Switch• LAN IP Filter• Virtual Server• ACL Service• DMZ Service

Item	Description
NAT setup	<ul style="list-style-type: none"> • CONE NAT • Symmetric NAT • ALG • VPN passthrough
DHCP setup	<ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 2G Only • 3G Only • 4G Only • Auto
	PIN management: activate/deactivate PIN, PIN lock, changing PIN, unblocking by using the PUK.
System requirement	<ul style="list-style-type: none"> • 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



3.4 Known Limitations and Issues

Index	Case ID	Issue Description

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

4.4 Known Limitations and Issues

Index	Case ID	Issue Description

5 Software Vulnerabilities Fixes

Software/Module name	Version	CVE ID	Vulnerability Description	Solution
				<i>None</i>