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# B310s-518TCPU-V200R001B321D03SP00C

## 255 Release Notes

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## Revision Record

Date	Revision version	FW-WebUI/HiLink Version	Change Description	Author
2017/1/16	1.0	FW 21.321.03.00.255	The 1 <sup>st</sup> Version	Guo xiaofei

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## B310s-518 Firmware Release Notes

Abbreviations	description

### 1 Main Features

The B310s-518 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:	WL1B310FM (B310s-518)
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/B2/B4/B5/B7/B28	
	HSPA+/HSPA/UMTS: B1/B2/B4/B5	
	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: 12.5 dBm
		802.11n: 12.5 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: 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	<ul style="list-style-type: none"> <li>Built-in GSM/UMTS/LTE main diversity antenna</li> <li>Built-in GSM/UMTS/LTE diversity antenna</li> <li>Built-in WLAN antenna</li> </ul>	
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:	21.321.03.00.255
Baseline information	BalongV700R110C30B321
OS	VxWorks 6.8+linux 3.4.5

## 3.2 Firmware Specifications

Item	Description
SMS	<ul style="list-style-type: none"><li>• Writing/Sending/Receiving</li><li>• Sending/Receiving extra-long messages</li><li>• Storage: Up to 500 messages can be saved in the internal memory</li><li>• New message prompt</li></ul>
Network connection setup	<ul style="list-style-type: none"><li>• APN management: create, delete and edit.</li><li>• Set up network connection</li></ul>
WLAN setup	<ul style="list-style-type: none"><li>• SSID broadcasting and hiding</li><li>• Open system and shared key authentication</li><li>• ASCII and HEX keys</li><li>• 64/128-bit WEP encryption</li><li>• 256-bit WPA-PSK and WPA2-PSK encryption</li><li>• AES encryption algorithm</li><li>• TKIP and AES integrated encryption algorithm</li><li>• Automatic adjustment of ratios</li><li>• Display STA status</li><li>• WLAN MAC filter</li></ul>
Firewall setup	<ul style="list-style-type: none"><li>• Firewall Switch</li><li>• LAN IP Filter</li><li>• Virtual Server</li><li>• DMZ Service</li></ul>

Item	Description
NAT setup	<ul style="list-style-type: none"> <li>• CONE NAT</li> <li>• Symmetric NAT</li> <li>• ALG</li> <li>• VPN passthrough</li> </ul>
DHCP setup	<ul style="list-style-type: none"> <li>• DHCP server enabling and disabling</li> <li>• Address pool of the DHCP server setup</li> <li>• DHCP lease time setup</li> </ul>
IPv4 single stack	DHCPv4 server and client DNSv4 server and client Display IPv4 WAN address
Other	Network connection settings: <ul style="list-style-type: none"> <li>• Automatic network selection and registration</li> <li>• Manual network selection and registration</li> </ul>
	Network status display: signal, operator name, system mode, and so on.
	Selection of network connection types, for example: <ul style="list-style-type: none"> <li>• Support LTE networks ON/OFF</li> </ul>
	PIN management: activate/deactivate PIN, PIN lock, changing PIN, unblocking by using the PUK.
System requirement	<ul style="list-style-type: none"> <li>• Windows XP SP3, Windows Vista SP1/SP2, Windows 7, Windows 8 (does not support Windows RT)</li> <li>• Mac OS X 10.6, 10.7 and 10.8 with latest upgrades</li> <li>• Your computer's hardware system should meet or exceed the recommended system requirements for the installed version of OS</li> </ul>

### 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