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E5151s-2	CONFIDENTIAL
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V200R001	

# E5151s-2 21.146.23.00.00

## Firmware Release Notes

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Approved by		Date	



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## Revision Record

Date	Revision version	FW-WebUI/HiLink Version	Change Description	Author
2012-09-27	1.0	FW 21.141.07.00.00 WebUI 12.001.25.00.03		Xinyouqiang 00127421
2012-10-17	1.1	FW 21.141.09.00.00 WebUI 12.001.27.00.03		Xinyouqiang 00127421
2012-10-25	1.2	FW 21.141.11.00.00 WebUI 12.001.27.00.03		Xinyouqiang 00127421
2012-11-1	1.3	FW 21.141.13.00.00 WebUI 12.001.27.00.03		Xinyouqiang 00127421
2012-11-22	1.4	FW 21.141.15.00.00 WebUI 12.001.28.00.03		Xinyouqiang 00127421
2012-12-6	1.5	FW 21.141.17.00.00 WebUI 12.001.28.00.03		Xinyouqiang 00127421
2012-12-10	1.6	FW 21.141.19.00.00 WebUI 12.001.28.00.03		Xinyouqiang 00127421
2013-01-19	1.7	FW 21.143.03.00.00 WebUI 12.001.30.00.03		Xinyouqiang 00127421
2013-3-7	1.8	FW 21.143.07.00.00 WebUI 13.100.02.01.03		Xinyouqiang 00127421
2013-4-7	1.9	FW 21.143.09.00.00 WebUI 13.100.02.02.03		Xinyouqiang 00127421
2013-7-17	2.0	FW 21.143.11.00.00 WebUI 13.100.02.02.03		Xinyouqiang 00127421
2013-10-21	2.1	FW 21.143.13.00.00 WebUI 13.100.02.03.03		Xinyouqiang 00127421



2014-4-14	2.2	FW 21.143.15.00.00 WebUI 16.100.05.00.03		Xinyouqiang 00127421
2014-6-6	2.3	FW 21.146.17.00.00 WebUI 16.100.05.00.03		Xinyouqiang 00127421
2014-8-7	2.4	FW 21.146.19.00.00 WebUI 16.100.05.00.03		Xinyouqiang 00127421
2014-9-22	2.5	FW 21.146.21.00.00 WebUI 17.100.05.00.03		Xinyouqiang 00127421
2014-10-11	2.6	FW 21.146.23.00.00 WebUI 17.100.05.00.03		Xinyouqiang 00127421

## Table of Contents

1	Main Features .....	5
2	Hardware.....	5
2.1	Version Description .....	5
2.2	Hardware Specifications .....	5
3	Firmware .....	7
3.1	Version Description .....	7
3.2	Firmware Specifications .....	7
3.3	Improvement in the Previous Version .....	7
3.4	Known Limitations and Issues .....	7
4	WebUI.....	8
4.1	Version Description .....	8
4.2	WebUI Specifications .....	8
4.3	Improvement in the Previous Version .....	8
4.4	Known Limitations and Issue .....	8



## E5151s-2 Firmware Release Notes

### 1 Main Features

The E5151 mainly supports the following features:

- HSPA+ (DL) data service of up to 21.6 Mbit/s
- HSPA+ (UL) data service of up to 5.76 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
- GPRS data service of up to 85.6 kbit/s
- PS domain data service based on UMTS and GSM
- SMS based on CS/PS domain of GSM and UMTS
- Wi-Fi
- Plug and Play (PnP)
- Built-in DHCP Server, DNS RELAY and NAT
- Online software upgrade
- Traffic statistic
- Ethernet port
- PPPoE dial up
- MAC address cloning
- Standard Micro USB interface
- LED indicators
- Built-in UMTS and WLAN high gain antenna
- Windows XP, Windows Vista, Windows 7, MAC OS X 10.5, 10.6 and 10.7

### 2 Hardware

#### 2.1 Version Description

Hardware Version:	CH1E5151SM
Platform & Chipset:	Balong Hi6760 & Broadcom 43362

#### 2.2 Hardware Specifications

Item	Specifications
Technical standard	<ul style="list-style-type: none"><li>• WAN:HSPA+/HSPA/UMTS/EDGE/GPRS/GSM</li><li>• WLAN: IEEE 802.11b/g/n</li></ul>
Operating	HSPA+/HSPA/UMTS: 2100/900 MHz



Item	Specifications	
frequency	EDGE/GPRS/GSM: 1900/1800/900/850 MHz	
	WLAN: 2400–2483.5 MHz	
Internal memory	128 MB Flash, 64 MB Memory	
Maximum transmitter power	UMTS: 24 (+1/-3) dBm	
	WLAN	802.11b: 14 (+/-3) dBm
		802.11g: 11 (+/-3) dBm
		802.11n: 9 (+/-3) dBm
Receiver sensitivity	UMTS: -106 dBm	
	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: Support MCS0–MCS7; Up to 72.2 Mbit/s.	
Maximum power consumption	3.5 W	
Battery	<ul style="list-style-type: none"><li>• Type: Li (Rechargeable)</li><li>• Capacity: 3.7 V, 1500 mAh</li><li>• Maximum working time: 5 hours</li><li>• Maximum standby time: 250 hours while Wi-Fi is off; 30 hours while Wi-Fi is often on</li></ul>	
External interfaces	USB interface: Micro USB	
	SIM card interface: standard 6-pin SIM card interface	
	Ethernet port: RJ45	
Indicators	LED indicators: Ethernet, Signal, Wi-Fi, Battery, SMS, Power	
Button	Power switch, Reset switch	
Antenna	<ul style="list-style-type: none"><li>• Built-in GSM/UMTS main diversity antenna</li><li>• Built-in UMTS diversity antenna</li><li>• Built-in WLAN antenna</li></ul>	
Dimensions (D × W × H)	92.8 mm×63.5 mm×16.3 mm	
Weight	about 150 g (including the battery)	



Item	Specifications
Temperature	<ul style="list-style-type: none"><li>• Operating: 0°C to +35°C</li><li>• Storage: -20°C to +60°C</li></ul>
Humidity	5% to 95% ( non-condensing)

## 3 Firmware

### 3.1 Version Description

Firmware Version: 21.146.23.00.00

Baseline information : BalongV300R002C30B106

### 3.2 Firmware Specifications

Item	Specifications
Technical standard	<ul style="list-style-type: none"><li>• 3GPP R99/R5/R6/R7</li><li>• WiFi<ul style="list-style-type: none"><li>802.11b: Up to 11 Mbit/s</li><li>802.11g: Up to 54 Mbit/s</li><li>802.11n: Support MCS0–MCS7; Up to 72.2 Mbit/s.</li></ul></li></ul>
SMS	<ul style="list-style-type: none"><li>• UMTS/GSM Short Message Service</li></ul>
Data service	<ul style="list-style-type: none"><li>• EDGE: 236.8 Kbit/s</li><li>• HSPA: 14.4Mbit/s</li><li>• HSPA+:21.6Mbit/s</li><li>• DC-HSPA+:43.2Mbit/s</li></ul>

### 3.3 Improvement in the Previous Version

Index	Case ID	Issue Description
NA		

### 3.4 Known Limitations and Issues

Index	Case ID	Issue Description
NA		



## 4 WebUI

### 4.1 Version Description

WebUI: [17.100.05.00.03](#)

### 4.2 WebUI Specifications

Item	Specifications
NA	NA

### 4.3 Improvement in the Previous Version

Index	Case ID	Issue Description
NA		

### 4.4 Known Limitations and Issue

Index	Case ID	Issue Description
NA		