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V1.0	

# HUAWEI E5251s Firmware Release Notes

## V1.0

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Approved by		Date	



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## Revision Record

Date	Revision version	FW-WebUI/HiLink Version	Change Description	Author
2013-01-31	1.0	FW:21.143.05.00.00 WebUI:12.001.30.00.03	<i>First Version</i>	E5251 Team
2013-3-26	1.1	FW:21.143.09.00.00 WebUI:13.100.02.02.03		E5251 Team
2013-10-10	1.2	FW:21.143.11.00.00 WebUI:13.100.02.03.03		E5251 Team
2013-10-30	1.3	FW:21.143.13.00.00 WebUI:13.100.02.03.03		E5251 Team
2014-4-10	1.4	FW:21.143.15.00.00 WebUI:16.100.05.00.03		E5251 Team
2014-4-22	1.4	FW:21.146.17.00.00 WebUI:16.100.05.00.03		E5251 Team
2014-8-30	1.5	FW:21.146.19.00.00 WebUI:17.100.05.00.03		E5251 Team
2014-9-16	1.6	FW:21.146.21.00.00 WebUI:17.100.05.00.03		E5251 Team
2014-10-14	1.7	FW:21.146.23.00.00 WebUI:17.100.05.00.03		E5251 Team

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## E5251s Firmware Release Notes V1.0

Abbreviations	Description

### 1 Main Features

The E5251s supports the following standards:

- DC-HSPA+ (DL) data service of up to 43.2 Mbit/s
- DC-HSPA+ (UL) data service of up to 5.76 Mbit/s
- 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
- Five-second fast boot(optional)
- Plug and Play (PnP)
- 3G/Wi-Fi auto offload(optional)
- IPv6 /IPv4 dual stack (optional)
- Built-in DHCP Server, DNS RELAY and NAT
- Online software upgrade
- Traffic statistic
- Standard Micro USB interface
- LED indicators
- Built-in UMTS and WLAN high gain antenna
- Support for HUAWEI Mobile WIFI app
- Windows XP, Windows Vista, Windows 7, Windows 8, MAC OS X 10.5, 10.6, 10.7 and 10.8



## 2 Hardware

### 2.1 Version Description

Hardware Version:	CH1E5220SM06
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 frequency	E5251s-2: HSPA+/HSPA/UMTS: 2100/900 MHz	
	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	
Power supply	<ul style="list-style-type: none"><li>• AC: 100–240 V</li><li>• DC: 5 V, 1A</li></ul>	

Item	Specifications
Battery	<ul style="list-style-type: none"><li>• Type: Li (Rechargeable)</li><li>• Capacity: 3.7 V, 1150 mAh</li><li>• Maximum working time: 4 hours</li><li>• Maximum standby time: 200 hours while Wi-Fi is off; 23 hours while Wi-Fi is often on.</li></ul>
External interfaces	USB interface: Micro USB
	SIM card: standard 6-pin SIM card interface
Indicators	LED indicators: Signal, Wi-Fi, Battery, SMS
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)	90.5mm×56 mm×14.4mm
Weight	about 66 g (including the battery)
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+ 43.2 Mbit/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		