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E5221s-2	CONFIDENTIAL
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V1.0	

HUAWEI E5221s-2 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
2012-11-15	1.0	FW:21.143.01.00.00 WebUI:12.001.29.00.03	<i>First Version</i>	E5220 Team
2013-01-07	1.1	FW:21.143.03.00.00 WebUI:12.001.30.00.03		E5220 Team
2013-01-30	1.2	FW:21.143.05.00.00 WebUI:12.001.30.00.03		E5220 Team
2013-02-26	1.3	FW:21.143.07.00.00 WebUI:13.100.02.01.03		E5220 Team
2013-02-26	1.4	FW:21.143.09.00.00 WebUI:13.100.02.02.03		E5220 Team
2013-03-29	1.5	FW:21.143.11.00.00 WebUI:13.100.02.02.03		E5220 Team
2013-09-18	1.6	FW:21.143.15.00.00 WebUI:13.100.02.03.03		E5220 Team
2013-10-30	1.7	FW:21.143.17.00.00 WebUI:13.100.02.03.03		E5220 Team
2014-2-17	1.8	FW:21.143.19.00.00 WebUI:15.100.09.00.03		E5220 Team
2014-3-26	1.9	FW:21.143.21.00.00 WebUI:16.100.05.00.03		E5220 Team
2014-4-22	2.0	FW:21.146.23.00.00 WebUI:16.100.05.00.03		E5220 Team
2014-09-01	2.1	FW:21.146.25.00.00 WebUI:17.100.05.00.03		E5220 Team
2014-10-10	2.2	FW:21.146.27.00.00 WebUI:17.100.05.00.03		E5220 Team

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Abbreviations	Description

1 Main Features

The E5221s-2 supports the following standards:

- 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
- 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
- Micro Secure Digital Memory (microSD) Card
- 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:	CH1E5220SM03
Platform & Chipset:	Balong Hi6760 &Broadcom 43362

2.2 Hardware Specifications

Item	Specifications	
Technical standard	<ul style="list-style-type: none"> • WAN: HSPA+/HSPA/UMTS/EDGE/GPRS/GSM • WLAN: IEEE 802.11b/g/n 	
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"> • AC: 100–240 V • DC: 5 V, 1 A 	
Battery	<ul style="list-style-type: none"> • Type: Li (Rechargeable) • Capacity: 3.7 V, 1150 mAh • Maximum working time: 4 hours • Maximum standby time: 200 hours while Wi-Fi is off; 23 hours while Wi-Fi is often on. 	
External interfaces	USB interface: Micro USB	
	Standard microSD card interface	

Item	Specifications
	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">• Built-in GSM/UMTS main antenna• Built-in UMTS diversity antenna• Built-in WLAN antenna
Dimensions (H × W × D)	14.6 mm×90.5 mm×57.0 mm
Weight	about 58 g (including the battery)
Temperature	<ul style="list-style-type: none">• Operating: 0°C to +35°C• Storage: -20°C to +60°C
Humidity	5% to 95% (non-condensing)

3 Firmware

3.1 Version Description

Firmware Version: 21.146.27.00.00

Baseline information : BalongV300R002C30B106

3.2 Firmware Specifications

Item	Specifications
Technical standard	<ul style="list-style-type: none">• 3GPP R99/R5/R6/R7• WiFi<ul style="list-style-type: none">802.11b: Up to 11 Mbit/s802.11g: Up to 54 Mbit/s802.11n: Support MCS0–MCS7; Up to 72.2 Mbit/s.
SMS	<ul style="list-style-type: none">• UMTS/GSM Short Message Service
Data service	<ul style="list-style-type: none">• EDGE: 236.8 Kbit/s• HSPA: 14.4Mbit/s• HSPA+:21.6Mbit/s



3.3 Improvement in the Previous Version

Index	Case ID	Issue Description
1		

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		