

Product name	Confidentiality level
E5220s-2	CONFIDENTIAL
Product version	Total 9 pages
V1.1	

E5220s-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
2013-05-08	1.0	FW 21.143.11.00.143 WebUI 13.100.02.00.143		H81004401
2013-10-23	1.1	FW 21.143.15.00.143 WebUI 13.100.02.01.143		H81004401

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E5220s-2 Firmware Release Notes V1.0

1 Main Features

The E5220s 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(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:	CH1E5220SM
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	
Operating frequency	E5220s-1: HSPA+/HSPA/UMTS: 2100 MHz	
	E5220s-2: HSPA+/HSPA/UMTS: 2100/900 MHz	
	E5220s-6: HSPA+/HSPA/UMTS: 2100/1900/850 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">• AC: 100–240 V• DC: 5 V, 1A	
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	
	SIM card: standard 6-pin SIM card interface	
Indicators	LED indicators: Signal, Wi-Fi, Battery, SMS	
Button	Power switch, Reset switch	



Item	Specifications
Antenna	<ul style="list-style-type: none">• Built-in GSM/UMTS main diversity antenna• Built-in UMTS diversity antenna• Built-in WLAN antenna
Dimensions (D × W × H)	90.5mm×56 mm×14.4mm
Weight	about 66 g (including the battery)
Temperature	<ul style="list-style-type: none">• Operating: 0℃ to +35℃• Storage: -20℃ to +60℃
Humidity	5% to 95% (non-condensing)

3 Firmware

3.1 Version Description

Firmware Version: 21.143.15.00.143

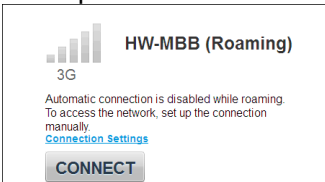
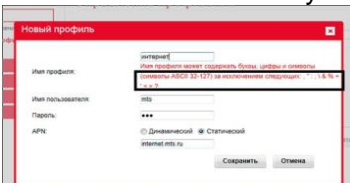
Baseline information : BalongV300R002C30B103

3.2 Firmware Specifications

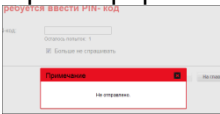
Item	Specifications
Technical standard	<ul style="list-style-type: none">• 3GPP R99/R5/R6/R7• WiFi<ul style="list-style-type: none">802.11b: Up to 11 Mbit/s802.11g: Up to 54 Mbit/s802.11n: Support MCS0–MCS7; Up to 72.2 Mbit/s.
SMS	<ul style="list-style-type: none">• UMTS/GSM Short Message Service
Data 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(21.143.15.00.143)

Index	Case ID	Issue Description
1	WPS	1 Requirements realized by reusing Power button WPS function:Double-click the power button to initiate WPS, while wifi lights flashing. 2.WEB UI support PIN Mode

Index	Case ID	Issue Description
2	UI Adjust	Adjust the signal Icon and PLMN name in homepage as follow picture shown: 
3	Delete words	Delete the words block by black box as the capture shown: 

3.4 Improvement in the Previous Version (21.143.11.00.143)

Index	Case ID	Issue Description
1	Profile parameters	Profile Name: MTS-Internet APN: internet.mts.ru User Name: mts Password: mts
2	WLAN parameters	SSID: MTS421D-XXXX XXXX is the last four characters of the MAC Address, MAC Address is capital) WIFI key: 8 random numbers (numbers +letters) Encryption Mode: WPA/WPA2-PSK WIFI Country: RU WIFI Access User Numbers: 10
3	Dial-up parameters	Authentication: CHAP Dial-up: Auto, increased the manual dial-up mode
4	Operator and PLMN	PLMN=25001 Operator name=MTS
5	SIMLOCK	25001
6	Modify the characters	1、 open a PIN, the default does not tick Remember password 2、 PIN code strings need to be modified: "Не отправлено" to "Неправильный PIN-код" 3、 the Network setting interface, manual search network, register a forbidden prompt the modified Не удалось зарегистрироваться в сети network failure. 

Index	Case ID	Issue Description
7	Migration menu	Online upgrade function to move to the Settings directory, the system same level
8	Help	remove Let's Simply Share in help
9	remove huawei	The remove huawei words, and related huawei copyright information, including information to be synchronized to modify
10	WIFI	1、 page all WiFi modified for Wi-Fi 2、 WIFI authentication mode share is amended to read as follows: Russian: WEP English: WEP-shared
11	Product Name	The device information page Product Name E5220 modify 421D
12	Time units	Max. Idle Time of units modified by the s for m, DHCP lease time units modified to h by s.
13	Modify the Russian strings	
14	other	Support URL filtering, support GEA3

3.5 Known Limitations and Issues

Index	Case ID	Issue Description
NA		

4 WebUI




4.1 Version Description

WebUI : [13.100.02.01.143](#)

4.2 WebUI Specifications

Item	Specifications
NA	NA

4.3 Improvement in the Previous Version

Index	Case ID	Issue Description
1	logo	
2	WEB page styles	 
3	WEB Language	Russian (default) + English

4.4 Known Limitations and Issue

Index	Case ID	Issue Description
NA		