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# E5770s Firmware Release Notes

## V1.0

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## Revision Record

Date	Revision version	FW-WebUI/Stick Version	Change Description	Author
2015-3-2	1.0	FW 21.180.99.10.00	First version	liuli

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## E5770s Firmware Release Notes V1.0

### 1 Main Features

The E5770s supports the following standards:

- 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 (Configuration 2)
- LTE TDD (UL) data service of up to 20 Mbit/s (Configuration 1)
- DC-HSPA+ (DL) data service of up to 43.2 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
- GPRS data service of up to 85.6 kbit/s
- Ethernet data service of up to 100 Mbit/s
- PS domain data service based on LTE/UMTS/GSM
- SMS based on UMTS and GSM
- Built-in LTE/UMTS/GSM and WLAN high gain antenna
- Micro Secure Digital Memory (microSD) Card
- SIM lock
- Wi-Fi and WPS
- LTE/3G/Wi-Fi auto offload
- Supply power to devices (working as a power bank)
- Support for HUAWEI Mobile WiFi App
- Press and Play
- IPv6/IPv4 dual stack (optional)
- Display current SSID and Wi-Fi key on the screen
- Built-in DHCP Server, DNS RELAY and NAT
- Online software upgrade
- Traffic statistic
- Ethernet port
- PPPoE dial up

- Standard Micro USB interface
- USB interface
- OLED-LCD screen
- 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 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:	
	<ul style="list-style-type: none"> <li>• FDD B1(2100 MHz)/B3(1800 MHz)/B7(2600 MHz)</li> <li>• TDD B38(2600 MHz)/B40(2400 MHz)/B41(2600 MHz)</li> </ul>	
	DC-HSPA+/HSPA+/HSPA/UMTS: B1(2100 MHz)/B8(900 MHz)	
	EDGE/GPRS/GSM: B2(1900MHz)/B3(1800MHz)/B8(900MHz)/B5(850MHz)	
	WLAN: 2.4 GHz	
Internal memory	128 MB NAND flash and 128 MB DDR SDRAM	
Maximum transmitter power	LTE: Conform to Power Class 3 Definition	
	UMTS: Conform to Power Class 3 Definition	
	WLAN	802.11b: 12 dBm
		802.11g: 10 dBm
		802.11n: 9 dBm
Receiver sensitivity	LTE: Confirm to 3GPP Requirements	
	UMTS: Confirm to 3GPP Requirements	
	WLAN	802.11b: -76 dBm@11 Mbit/s
		802.11g: -65 dBm@54 Mbit/s
		802.11n: -64 dBm@65 Mbit/s
WLAN speed	802.11b: Up to 11 Mbit/s	
	802.11g: Up to 54 Mbit/s	



Item	Specifications	
	802.11n	HT20: Support MCS0–MCS7; Up to 72.2 Mbit/s. Support MCS8–MCS15; Up to 144.4 Mbit/s. HT40: Support MCS0–MCS7; Up to 150 Mbit/s. Support MCS8–MCS15; Up to 300 Mbit/s.
Maximum power consumption	4 W	
Power supply	AC: 100–240 V	
	DC: 5 V, 2 A	
Battery	Type: Li (rechargeable and irremovable)	
	Capacity: 3.7 V, 5200 mAh	
	Maximum working time: 20 hours (depending on the network)	
	Maximum standby time: 500 hours (depending on the network)	
External interfaces	Micro USB interface	
	USB interface (supplying power to other devices)	
	Standard microSD card interface	
	Standard 6-pin SIM card interface	
	Ethernet port: RJ45	
Screen	OLED-LCD	
key-press	Power switch, WPS switch, Reset switch	
Antenna	Built-in LTE/UMTS/GSM main antenna	
	Built-in LTE/UMTS diversity antenna	
	Built-in WLAN antenna	
Dimensions (W × D × H)	106.0 mm × 68.4 mm × 22.5 mm	
Weight	about 200 g (including the battery)	
Temperature	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:	21.180.99.10.00
Baseline information	Balong V7R11 C30B180

### 3.2 Firmware Specifications

Firmware		
Item	Specifications	
Version	21.180.99.10.00	
Information	Platform	Balong V7R11
	Baseline	C30B180
	Feature	LTE Supported
Data service	GSM CS domain	<ul style="list-style-type: none"> <li>Uplink: 9.6/14.4 kbit/s</li> <li>Downlink: 9.6/14.4 kbit/s</li> </ul>
	GPRS	<ul style="list-style-type: none"> <li>Uplink: 85.6 kbit/s</li> <li>Downlink: 85.6 kbit/s</li> </ul>
	EDGE	<ul style="list-style-type: none"> <li>Uplink: 236.8 kbit/s</li> <li>Downlink: 236.8 kbit/s</li> </ul>
	UMTS PS domain	<ul style="list-style-type: none"> <li>Uplink: 384 kbit/s</li> <li>Downlink: 384 kbit/s</li> </ul>
	HSDPA	<ul style="list-style-type: none"> <li>14.4Mbit/s</li> </ul>
	HSUPA	<ul style="list-style-type: none"> <li>5.76 Mbit/s</li> </ul>
	HSPA+	<ul style="list-style-type: none"> <li>21.6Mbit/s</li> </ul>
	DC HSPA+	<ul style="list-style-type: none"> <li>Uplink:5.76 Mbit/s</li> <li>Downlink:43.2Mbit/s</li> </ul>
	LTE FDD	<ul style="list-style-type: none"> <li>Uplink: 50Mbit/s</li> <li>Downlink:150Mbit/s</li> </ul>
SMS	<ul style="list-style-type: none"> <li>SMS over SGs</li> </ul>	
Operating System	<ul style="list-style-type: none"> <li>Windows XP/Windows Vista/WIN 7/MAC/WIN8</li> </ul>	

### 3.3 Improvement in the Previous Version

Index	Case ID	Issue Description
1	DTS2015012210897	内环NV上库
2	DTS2015013100341	【E5770s-923-V4.1-MMI】MMI测试USB后，屏幕显示“USB PASS”中“B”字母显示异常，容易造成误解

Index	Case ID	Issue Description
3	DTS2015013100183	【E5770s-923-V4.1-MT】概率性不能识别USB设备误测1pcs，BSN:650
4	DTS2015020308381	【E5770s-923】NT工位电池电压校准概率性出现夹具阻抗为0
5	DTS2015020305186	修改MMI测试完成后不支持热拔卡
6	DTS2015020902124	E5770s-923因 LTE B3 DRX BOM优化引起的B3接收AGC优化需要升级射频NV
7	DTS2015021503016	单板关机后插外充导致无法开机问题硬件修改电路，OTG_ON_CTRL改为下拉释放power键。
8	DTS2015022606226	VN2预试制发现LTE Band40 PRX校准AGC余量偏低，需要调试NV优化
9	DTS2015030203589	W_B8功率偏大问题修改

### 3.4 Known Limitations and Issues

Index	Case ID	Issue Description