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HUAWEI E170 Release Notes

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Revision record

Date	Revision version	Change Description	Author
2008-6-10	1.00	Update Firmware Description of 11.311.05.01.00	E170 Team



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HUAWEI E170 Release Notes

1 Main Features

- | The E170 supports the following standards:
- | HSDPA/WCDMA 850/1900/2100 MHz and GSM/GPRS/EDGE 850/900/1800/1900 MHz
- | WCDMA 2100 MHz receive diversity
- | HSDPA packet data service of up to 7.2 Mbit/s
- | HSUPA packet data service of up to 2 Mbit/s
- | UMTS PS domain data service of up to 384 kbit/s
- | EDGE packet data service of up to 236.8 kbit/s
- | GPRS packet data service of up to 85.6 kbit/s
- | CS domain data service based on UMTS and GSM
- | SMS based on CS domain and PS domain of GSM and UMTS(default is CS domain only), supporting group sending of messages
- | Plug and play (PnP)
- | Standard USB interface, auto installation, convenient for use
- | Windows 2000/Windows XP/Windows Vista/MAC operating system (OS)

2 Hardware

2.1 Version Description: CD91TCPU VER.B

2.2 Hardware specifications

Item	Specifications
Technical standard	<ul style="list-style-type: none"> WCDMA R5 HSDPA 7.2 Mbit/s HSUPA R6 GSM/GPRS/EGPRS MSC 12/DTM

Item	Specifications
Operating frequency	<p>HSDPA/HSUPA/WCDMA 2100 MHz:</p> <ul style="list-style-type: none"> Uplink: 1920–1980 MHz Downlink: 2110–2170 MHz <p>HSDPA/HSUPA/WCDMA 1900 MHz:</p> <ul style="list-style-type: none"> Uplink: 1850–1910 MHz Downlink: 1930–1990 MHz <p>HSDPA/HSUPA/WCDMA 850 MHz:</p> <ul style="list-style-type: none"> Uplink: 824–849 MHz Downlink: 869–894 MHz <p>GSM/GPRS/EDGE 1800 MHz:</p> <ul style="list-style-type: none"> Uplink: 1710–1785 MHz Downlink: 1805–1880 MHz <p>GSM/GPRS/EDGE 900 MHz:</p> <ul style="list-style-type: none"> Uplink: 880–915 MHz Downlink: 925–960 MHz <p>GSM/GPRS/EDGE 850 MHz:</p> <ul style="list-style-type: none"> Uplink: 824–849 MHz Downlink: 869–894 MHz
External interfaces	PCMCIA ExpressCard Standard 1.1 interface
	LED: indicating the status of the E170
	SIM/USIM card: standard 6-pin SIM card interface
Maximum transmitter power	HSDPA/HSUPA/WCDMA 2100/1900/850 MHz: +24 dBm (Power Class 3)
	GSM/GPRS 850/900 MHz: +33 dBm (Power Class 4)
	GSM/GPRS 1800 MHz/1900 MHz: +30 dBm (Power Class 1)
	EDGE 850/900MHz: +27 dBm (Power Class E2)
	EDGE 1800MHz/1900MHz: +26 dBm (Power Class E2)
Static receiver sensitivity	HSPA/HSUPA/WCDMA 2100/1900/850 MHz: compliant with 3GPP TS 25.101 (R6)
	GSM/GPRS/EDGE 850/900/1800/1900 MHz: compliant with 3GPP TS 05.05 (R99)
Maximum power consumption	≤ 3.3 W
Power supply	3.3 V/1A
Dimensions (D × W × H)	112 mm × 34 mm × 10 mm
Weight	< 45 g
Temperature	Operating: –10°C to +55°C
	Storage: –40°C to +70°C
Humidity	5% to 95%

Item	Specifications
Note: <i>3GPP = The 3rd Generation Partnership Project</i> <i>DTM = digital trunk module</i> <i>EGPRS = enhanced GPRS</i> <i>LED = light-emitting diode</i> <i>MSC = mobile switching center</i> <i>SIM = subscriber identity module</i> <i>TS = technical specification</i> <i>USIM = UMTS subscriber identity module</i>	

2.2.1 Improvement in the previous version

- 1) it's a steady and normal commercial version of E170 firmware.

2.2.2 Known limitations and issues

None.

3 Firmware

3.1 Version Description: 11.311.05.01.00

3.2 Software specifications

Item	Specifications
Data service	GSM CS domain: ┆ Uplink: 9.6/14.4 Kbit/s ┆ Downlink: 9.6/14.4 Kbit/s GPRS: ┆ Uplink: 85.6 Kbit/s ┆ Downlink: 85.6 Kbit/s EDGE: ┆ Uplink: 236.8 Kbit/s ┆ Downlink: 236.8 Kbit/s UMTS CS domain: ┆ Uplink: 64 Kbit/s ┆ Downlink: 64 Kbit/s UMTS PS domain: ┆ Uplink: 384 Kbit/s ┆ Downlink: 384 Kbit/s HSDPA: ┆ 7.2 Mbit/s HSUPA: ┆ 2 Mbit/s



Item	Specifications
SMS	Based on CS domain of GSM or UMTS

3.3 Improvement in the previous version 11.311.05.00.00

11.311.05.01.00, based on Qualcomm release M7200BSKCBADZD3160 , this version also solve some issues as below :

- 1) Add Qualcomm Patch, resolve the issue “RxD transition to switch the UE to Type3 causes mDSP to crash in some race scenarios”.

3.4 New features

- 1) The firmware is based on Qualcomm commercial release M7200BSKCBADZD3160.

3.5 Known limitations and issues

None