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EM770W	Secret
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Huawei EM770W 11.126.10.95.00 Release Notes

Prepared by Firmware Team Date 2011-8-12
Reviewed by _____ Date _____



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Revision record

Date	Revision version	change Description	Author
2011-8-12	1.00	Initial	Firmware Team



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EM770W Hardware and Firmware Release Notes

1 Base information

1.1 Specifications

Base Information	
Item	Specifications
Hardware Version	MD32TCPU
Technical standard	WCDMA/HSDPA R5 HSUPA R6 GSM/GPRS/EGRPS R99
Operating frequency	HSDPA/HSUPA/WCDMA 2100 MHz: Uplink: 1920–1980 MHz Downlink: 2110–2170 MHz
	HSDPA/HSUPA/WCDMA 1900 MHz: Uplink: 1850–1910 MHz Downlink: 1930–1990 MHz
	HSDPA/HSUPA/WCDMA 900 MHz: Uplink: 880–915 MHz Downlink: 925–960 MHz
	HSDPA/HSUPA/WCDMA 850 MHz: Uplink: 824–849 MHz Downlink: 869–894 MHz
	GSM/GPRS/EDGE 1900 MHz: Uplink: 1850–1910 MHz Downlink: 1930–1990 MHz
	GSM/GPRS/EDGE 1800 MHz: Uplink: 1710–1785 MHz Downlink: 1805–1880 MHz
	GSM/GPRS/EDGE 900 MHz: Uplink: 880–915 MHz Downlink: 925–960 MHz
	GSM/GPRS/EDGE 850 MHz: Uplink: 824–849 MHz Downlink: 869–894 MHz
External interfaces	Mini PCI Express interface: 1.2(support USB 2.0 high speed)
	Antenna interface: Hirose U.FL-R-SMT
Maximum transmitter power	HSDPA/HSUPA/WCDMA 2100/1900/900/850 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)



Base Information	
Item	Specifications
Static receiver sensitivity	HSDPA/HSUPA/WCDMA 2100/1900/900/850 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	≤ 2.5 W
Power supply	3.3V/1100 mA (Mini PCI-E interfaces)
Dimensions (D × W × H)	51mm × 30 mm × 5 mm
Weight	< 40 g
Note: 3GPP = The 3rd Generation Partnership Project EDGE = enhanced GPRS TS = technical specification	

2 Firmware

2.1 Specifications

Firmware		
Item	Specifications	
Version	11.126.10.95.00	
Data service	GSM CS domain:	<ul style="list-style-type: none"> Uplink: 9.6/14.4 kbit/s Downlink: 9.6/14.4 kbit/s
	GPRS:	<ul style="list-style-type: none"> Uplink: 85.6 kbit/s Downlink: 85.6 kbit/s
	EDGE:	<ul style="list-style-type: none"> Uplink: 236.8 kbit/s Downlink: 236.8 kbit/s
	UMTS CS domain:	<ul style="list-style-type: none"> Uplink: 64 kbit/s Downlink: 64 kbit/s
	UMTS PS domain:	<ul style="list-style-type: none"> Uplink: 384 kbit/s Downlink: 384 kbit/s
	HSDPA:	<ul style="list-style-type: none"> 7.2 Mbit/s
	HSUPA:	<ul style="list-style-type: none"> 5.76 Mbit/s
SMS	<ul style="list-style-type: none"> Based on CS domain/PS domain of GSM and UMTS 	



2.2 Improvement in the previous version

Firmware	
Defect No.	Defect Description
11.126.10.95.00	<ol style="list-style-type: none"> 1. Enable PCM voice function. 2. Add NITZ unsolicited report. 3. Add AT command ^NTCT to control the NITZ's unsolicited report. 4. Disable the unsolicited report of ^DSFLOWRPT and ^BOOT.
11.126.10.93.00	<ol style="list-style-type: none"> 1. Fixed the issue that UE will reset with low probability when send UL data continuously. 2. Fixed the issue of incorrect response of +CREG? And +CGREG? 3. Fixed the issue that PCUI is suspended while modem signal is set but no data received, then no response for AT command.
11.126.10.86.00	<ol style="list-style-type: none"> 1. Add AT command to obtain module's temperature. 2. Support Body SAR function 3. Improve power consumption performance on Idle and Connected mode.
11.126.10.85.00	<ol style="list-style-type: none"> 1. Fix the issue that AT command "at+creg?" returns random number when device hasn't registered a network. 2. Improve the issue that the device lost some times. 3. Improve the issue that the USB change to 1.1 some times. 4. Optimize the modules' LED blink scheme. 5. Optimize the startup time.
11.126.10.81.00	<ol style="list-style-type: none"> 1. Fix the issue that some modules' LED will blink at S3 state.
11.126.10.80.00	<ol style="list-style-type: none"> 1. Fix the class0 message issue that save the class0 message in SIM card 2. Modified the at command "at+cops" to return the current register net information. 3. Fix the issue that when net's reply is IPCP ACK ,the DNS is zero 4. Fix the issue that when manual register the forbidden network ,the dashboard displays that register successful 5. Fix the issue that can't open some website in some network environments 6. Fix the issue that manual searching network will miss some network 7. Integrate Qualcomm's SBA HU_11, HU_12, HU_13, and HU_14.
11.126.07.02.00	<ol style="list-style-type: none"> 1. The first Release for ACER

2.3 Known limitations and issues

Firmware	
Limitation No.	Limitation Description
None.	None.