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Huawei EM770W 11.126.10.81.00 Release Notes

Pegatron P/N: 0C06-002W000

ASUS P/N: 04G0300025BK



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Revision record

Date	Revision version	change Description	Author
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Huawei EM770W Release Notes

1. Main Features

The EM770W supports the following standards:

- HSUPA/HSDPA/WCDMA 2100/1900/900/850 MHz and GSM/GPRS/EDGE 850/900/1800/1900 MHz
- HSDPA equalizer and receive diversity
- HSDPA packet data service of up to 7.2 Mbit/s
- HSUPA data service of up to 5.76 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
- Circuit Switched(CS) domain data service based on UMTS and GSM
- SMS based on CS/Packet Switched (PS) domain of GSM and WCDMA
- USSD service
- Mini-PCI Express interface 1.2

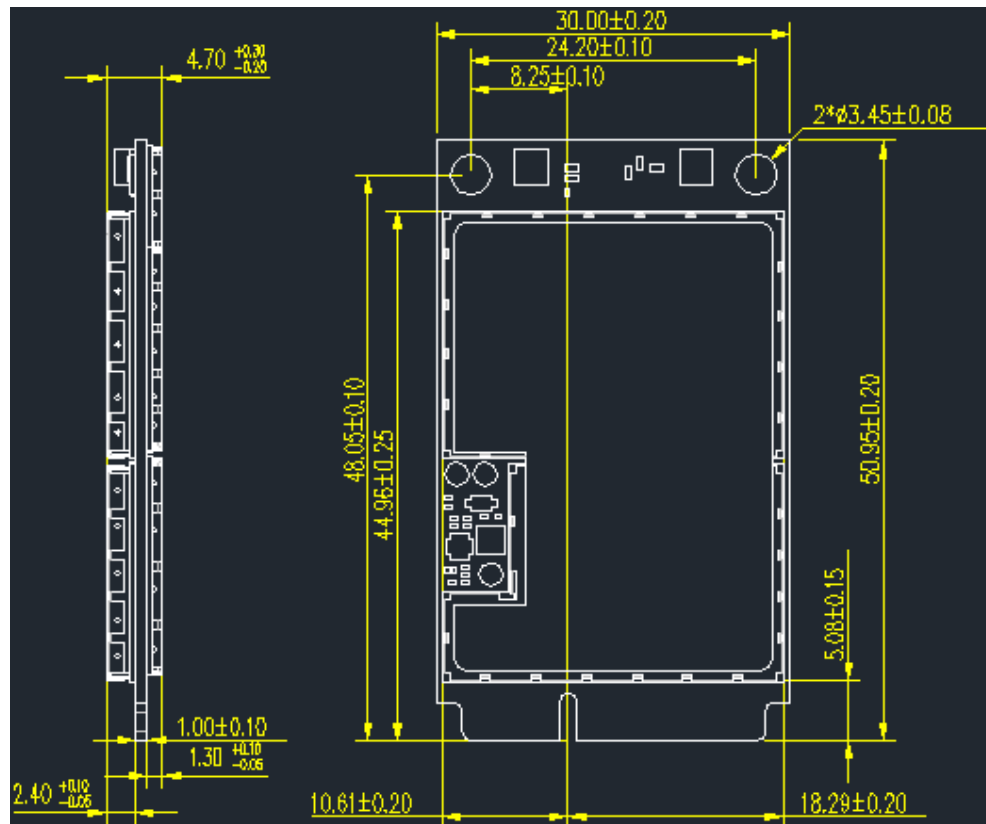
2. Hardware

2.1 Version Description: MD32TCPU

2.1.1 Module Photo:



2.1.1 Module Diagram:



2.2 Hardware specifications

Item	Specification
Technical standard	<ul style="list-style-type: none"> • WCDMA/HSDPA R5 • HSUPA R6 • GSM/GPRS/EGRPS R99
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>HSUPA/HSDPA/UMTS 900 MHz:</p> <ul style="list-style-type: none"> • Uplink: 880~915MHz • Downlink: 925~9604 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 850 MHz:</p> <ul style="list-style-type: none"> • Uplink: 824–949 MHz • Downlink: 869–894 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 1800 MHz:</p> <ul style="list-style-type: none"> • Uplink: 1710–1785 MHz • Downlink: 1805–1880 MHz <p>GSM/GPRS/EDGE 1900 MHz:</p> <ul style="list-style-type: none"> • Uplink: 1850–1910 MHz • Downlink: 1930–1990 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)

Item	Specification
Static receiver sensitivity	HSPA/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)
GPS	Support A-GPS and S-GPS function
Voice	Support PCM Voice
Maximum power consumption	$\leq 2.5\text{W}$
Power supply	3.3V/1100 mA (Mini PCI-E interfaces)
Dimensions (D×W×H)	51mm × 30 mm × 5 mm
Weight	< 40 g
Note: <i>3GPP = The 3rd Generation Partnership Project</i> <i>EDGE = enhanced GPRS</i> <i>TS = technical specification</i>	

2.3 Improvements in the previous version

None.

2.4 Known limitations and issues

None.

3. Firmware

3.1 Version Description: 11.126.10.81.00

3.2 Software specifications

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

3.3 New features

No.	Specification
1	The current release is based on Qualcomm release M6290 220050.

3.4 Improvements in the previous version

Version	Description
11.126.10.81.00	1. Fix the issue that some modules' LED will blink at S3 state.
11.126.10.80.00	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	1. The first Release for ASUS.

3.5 Known limitations and issues

None.