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| EM820W | INTERNAL |
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| V100R001 | |

EM820W 11.810.10.03.00

Release Notes

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Reviewed by _____
Granted by _____

Date 2012-07-05
Date _____
Date _____



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Revision History

| Date | Revision Version | Change Description | Author |
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| 2012-07-05 | 1.00 | Initial | Gaocheng 81004494 |



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EM820W 11.810.10.03.00 Release Notes

1 Main Features

The EM820W supports the following standards:

- HSPA+ packet data service of up to 21 Mbit/s
- HSDPA packet data service of up to 14.4 Mbit/s
- HSUPA packet data service of up to 5.76 Mbit/s
- WCDMA 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
- SMS based on CS/Packet Switched (PS) domain of GSM and WCDMA, supporting group sending of messages
- Standard USB 2.0 High Speed interface
- Windows XP/ Windows Vista/ Windows 7
- Power management
- GPS/AGPS/XTRA
- Support ECM

2 Hardware

2.1 Version Description: MD1EM820WM

2.2 Hardware specifications

| Item | Specifications |
|--------------------|---|
| Technical standard | GSM / GPRS/ EGPRS MSC 12 / DTM / WCDMA R5 / HSDPA cat14 21Mbps / HSUPA cat6 5.76Mbps / HSPA+ R7 |

| Item | Specifications |
|---------------------------|---|
| Operating frequency | <ul style="list-style-type: none"> WCDMA/HSPA/HSPA+ 2100MHz : 1920MHz~1980 MHz/2110MHz~2170 MHz(Uplink/Downlink) WCDMA/HSPA/HSPA+ 1900MHz : 1850MHz~1910MHz/1930MHz~ 1990MHz(Uplink/Downlink) WCDMA/HSPA/HSPA+ 900MHz : 880MHz~915MHz/925MHz~960 MHz(Uplink/Downlink) WCDMA/HSPA/HSPA+ 850MHz: 824~849 MHz/869~894 MHz(Uplink/Downlink) GSM/GPRS/EDGE 850MHz: 824~849 MHz/869~894 MHz(Uplink/Downlink) GSM/GPRS/EDGE 900MHz : 880MHz~915MHz/925MHz~960 MHz(Uplink /Downlink) GSM/GPRS/EDGE 1800MHz : 1710MHz~1785MHz/1805MHz~ 1880MHz (Uplink/Downlink) GSM/GPRS/EDGE 1900MHz : 1850MHz~1910MHz/1930MHz~ 1990MHz(Uplink/Downlink) |
| Max. transmitter power | <ul style="list-style-type: none"> WCDMA/HSPA/HSPA+ 2100/1900/900/850MHz : +24dBm (Power Class 3) GSM/GPRS 850M/900MHz: +33dBm (Power Class 4) GSM/GPRS 1800MHz/1900MHz: +30dBm (Power Class 1) EDGE 850M/900MHz: +27dBm (Power Class E2) EDGE 1800MHz/1900MHz: +26dBm (Power Class E2) |
| Maximum power consumption | Average power consumption <= 2.8W |
| External interfaces | Compliant to PCI-SIG PCI Express Mini Card version 1.2(Support USB 2.0 protocol) |
| Power supply | 3.3V/1100mA |
| Dimensions (L x W x H) | 51mm x 30 mm x 4.5 mm |
| Weight | 11g |

3 Firmware

3.1 Version Description: 11.810.10.03.00

3.2 Software specifications

| Item | Specifications |
|--------------|---|
| Data service | <ul style="list-style-type: none">• GSM CS: UL 9.6kbps/DL 9.6kbps• GPRS/EDGE: Multi-slot Class 12, Class B• WCDMA CS: UL 64kbps/DL 64kbps• WCDMA PS: UL 384kbps/DL 384kbps• UL/DL HSPA: UL 5.76Mbps/DL 7.2Mbps• UL/DL HSPA+: UL 5.76Mbps/DL 21Mbps |
| SMS | Based on CS domain/PS domain of GSM and UMTS |
| GPS | Standalone, AGPS,XTRA, only support on Win7 and early system |

3.3 Improvements to previous

| Version | Features(New/Modify) |
|-----------------|---|
| 11.810.10.03.00 | <ul style="list-style-type: none">• Fix the bug of no service in 2G network after wake up from sleep mode |
| 11.810.10.01.00 | <ul style="list-style-type: none">• Fix the bug of missing tags of WWAN on WIN 7• Fix the bug of upgrade |
| 11.810.09.18.00 | <ul style="list-style-type: none">• Fix the bug of reset on the network of Ningxia• Fix the bug of GPS• Fix the bug of Power management |
| 11.810.09.12.00 | <ul style="list-style-type: none">• Modified the Project of Power |
| 11.810.09.10.00 | <ul style="list-style-type: none">• Fixed the issue that the power consumed in IDLE is more than expectation. |

3.4 New or improved features and functionalities

The current release is based on Qualcomm release MDM8200A 10388.



3.5 List of known issues and limitations

| No. | Description |
|-----|-------------|
| NA | |