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ME909u-521 Firmware Release Notes V3.0

(12.636.12.01.00)

Prepared by	M2M Team	Date	2016-06-21
Reviewed by	M2M Team	Date	2016-06-21
Approved by	M2M Team	Date	2016-06-21



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Revision Record

Date	Revision version	Firmware Version	Change Description	Author
2016-06-21	3.0	12.636.12.01.00	Release for version 12.636.12.01.00	M2M Team
2015-03-10	2.0	12.636.11.01.00	Release for version 12.636.11.01.00	M2M Team
2015-01-05	1.1	12.631.07.01.00	Add MAC address change history.	M2M Team
2014-12-06	1.0	12.631.07.01.00	Create first release for 12.631.07.01.00	M2M Team

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Abbreviations	Description
3GPP	The 3rd Generation Partnership Project
TS	Technical Specification
USIM	Universal Subscriber Identity Module
SIM	Subscriber Identity Module

1 Main Features

The ME909u-521 supports the following standards:

- LTE downlink data service up to 100 Mbit/s
- LTE uplink data service up to 50 Mbit/s
- DC-HSPA+ data service up to 42 Mbit/s
- HSPA+ data service up to 21.6 Mbit/s
- HSDPA data service up to 14.4 Mbit/s
- HSUPA data service up to 5.76 Mbit/s
- WCDMA PS domain data service of up to 384 Kbit/s
- Equalizer and receive diversity
- Data and SMS Service
- Support CDC-ECM interface
- Support GPS/AGPS
- Support PCM
- Support FOTA
- Support HSUART
- Support CMUX

2 Firmware

2.1 Version Description

Platform information	Qualcomm MDM9215
Supported Hardware Version	ML1ME909UM
AT Command Interface Specification Version	HUAWEI ME909u-521 LTE LGA Module AT Command Interface Specification-(V100R002_02, English)
Android RIL	RIL-V100R005B003D29SP00C03



2.2 Firmware Specifications

Item	Specifications
1	Data and SMS service
2	Thermal protection
3	CDC-ECM for Linux
4	Sleep mode
5	GPS/AGPS features
6	PCM
7	FOTA
8	HS UART
9	CMUX

2.3 Improvement based on the Previous Version

Firmware Version	Index	Improvement
12.636.12.01.00	1	Fix Google android leak patch CVE-2016-2438 and CVE-2016-0774
	2	Fix the dial-up network problems.
	3	Fix the leak of Android - platform - prebuilts - gcc - linux-x86 - arm - arm-linux-androideabi-4.74.3_r1.
	4	Fix Linux kernel leak patch CVE-2015-1805

2.4 Known Limitations and Issues

1	This version doesn't send the USB interrupt event "NETWORK_CONNECTION" to CDC-ECM port after CDC-ECM dial-up connected or disconnected, it will cause data service failure if you use the event to control network connection by some applications such as "Network Monitor" on PC Linux, but this case is rare on Embedded Linux as the USB event is mostly useless. Instead it is helpful to check the connection status by the AT indicator: ^NDISSTAT or AT command: ^NDISSTATQRY?.
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Appendix

History of Firmware Improvement

Firmware Version	Index	Improvement
12.636.11.01.00	1	Support CMUX feature over UART.
	2	Add AT+CEUS command to set the MT network selection rule according to the specified UE's usage setting for EPS(Evolved Packet System).
	3	Add AT^AUDLFC command to control the low frequency range of audio.
12.631.07.01.00	1	Modified the firmware version to advance the production efficiency, this modification has not effect to the module's features or functions and performances.
	2	Support local upgrade via modem port
	3	Add new features PCM voice, FOTA and HS UART
	4	Change the MAC address for ECM port, this will make the network adapter name change from "eth0" to "usb0" in the HOST. This change will not affect the function of ECM port itself. But the customer shall take care about this while he tries to configure the routing between different network devices with the network adapter name in HOST.
11.235.07.00.00	1	Fix the issue that NEMA data are reported to PCUI port.
	2	Fix the issue that the PDP context of AGPS does not work.
	3	Fix the issue that the WNINV URC value is empty when received NI GPS SMS.
	4	Delete the ^position URC command.
11.235.05.00.00	1	Add GPS/AGPS features.
11.234.77.00.00	1	Optimize the thermal protection solution to match the PCIE hardware.
11.234.75.00.00	1	Add the XO calibration NV to back and restore list.
	2	Fix bugs for AT^NDISDUP / AT^NDISSTATQRY / AT^WAKEUPCFG=1,3,5
11.234.71.00.00	1	Modify RF parameters to apply to LGA and PCIE interfaces.
11.234.67.00.00	1	First version