

M66 OpenCPU SDK

Release Notes

GSM/GPRS Module Series

Rev. M66_OpenCPU_GS3_SDK_Release_Notes_V2.4

Date: 2019-07-30

1. Preamble

This document provides the Release Notes for M66 OpenCPU GS3 SDK version **V2.4**. It describes major changes compared to M66 OpenCPU GS3 SDK version **V2.3**. For a detailed listing of all changes, refer to the M66 OpenCPU User Guide.

2. New Features

| Item /Category | Brief description | Since |
|--------------------|--|-------|
| BT | Added BT RIL API and BT example. | V1.6 |
| OTHER | Added file ril_sim.h, ril_sim.c. | V1.8 |
| STDLIB | Added new API RIL_GetIMEI(), RIL_NW_GetOperator(), QI_RIL_AT_GetErrCode(), RIL_SIM_GetIMSI() and RIL_SIM_GetCCID(). | V1.8 |
| AUDIO | Added API for DTMF detect and send. | V1.8 |
| OTHER | Implement OCPU wit cloud access, can realize remote control of intelligent hardware. | V1.8 |
| OTHER | Added the parameter QL_UART_TX_BUF_SEND_OUT for QI_UART_GetOption to check whether the serial data is sent out or not. | V2.2 |
| NTP | Added RIL API for NTP. | V2.3 |
| QuecLocator | Added the example of QLBS (example_location2.c). | V2.4 |

3. Improved Features

| Item/Category | Brief description | Since |
|-----------------|--|-------|
| UART | Added a couple of APIs QI_UART_RX_Enable()/QI_UART_RX_Disable() to switch the RX option of UART ports. | V1.6 |
| AUDIO | Added Callback Registration of AUDIO to indicate the play result. | V1.6 |
| WatchDog | Improved the function that the PINNAME_PCM_OUT as the M66 default pin for feeding watchdog. | V1.8 |
| OTHER | Fixed the bug that after deactivate a PDP context ID, and then can not get the same context ID again.. | V1.8 |

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|--------------|--|------|
| OTHER | Fixed the bug that call RIL interface will return -3(RIL_AT_BUSY) under the multitasking. | V1.8 |
| ALARM | Fixed the bug that the alarm boot without RING URC reported. | V1.8 |
| OTHER | Rename RIL_NW_GetSIMCardState() to RIL_SIM_GetSimState(). | V1.8 |
| AUDIO | Added API RIL_AUD_PlayMemBg() and RIL_AUD_StopPlayMemBg() to Support background play audio data. | V1.8 |
| BT | Fixed the bug that setting the BT device name failed. | V1.8 |
| FTP | Fixed the bug that under condition of two way connection (active and passive), one way connection is disconnected, and the other way will have problem with send and receive data. | V1.8 |
| AUDIO | Fixed the bug that setting and querying CLVL failed. | V2.0 |
| SMS | Fixed the bug that failed to read message when a new SMS received, and the time zone of SMS is negative. | V2.0 |
| OTHER | Fixed the bug that URC is returned when using "AT+CREG?/AT+CGREG?" to query network status. | V2.2 |
| SMS | Fix SMS Data Coding Scheme(DCS) issue. | V2.2 |
| API | Optimized function QI_SecureData_Read(). | V2.4 |

4. Functions

Basic API

| UART | GPIO | EINT | PWM | ADC | IIC | SPI | CLOCK | Watch Dog |
|--------|------|-------|-------|--------|---------------------------|--------|-------|-----------|
| Y | Y | Y | Y | Y | Y | Y | N | Y |
| SYSTEM | TIME | TIMER | POWER | MEMORY | File System ¹⁾ | SOCKET | FOTA | TRACE |
| Y | Y | Y | Y | Y | Y | Y | Y | Y |
| STDLIB | | | | | | | | |
| Y | | | | | | | | |

RIL API

| AT | SMS | CALL | FTP | HTTP | AUDIO ²⁾ | Quec Locator | ALARM | Secure Data |
|------------------|-----|------|-----|------|---------------------|--------------|-------|-------------|
| Y | Y | Y | Y | Y | Y | Y | Y | Y |
| BT ³⁾ | NTP | | | | | | | |
| Y | Y | | | | | | | |

NOTES

1. Y means the SDK supports this function.
2. N means the SDK does not support this function.
3. ¹⁾ Supports UFS/RAM/SD FILE only.
4. ²⁾ Supports Audio Record/Play.
5. ³⁾ Supports BT 3.0 only, includes SPP, HFP, OPP.