BC26 OpenCPU SDK Release Notes

LPWA Module Series

Rev. BC26_OpenCPU_NB1_SDK_Release_Notes_V1.4

Date: 2019-05-07

1. Preamble

This document provides the Release Notes for BC26 OpenCPU NB1 SDK version **V1.3**. It describes major changes compared to BC26 OpenCPU NB1 SDK version **V1.4**. For a detailed listing of all changes, refer to the BC26 OpenCPU User Guide.

2. New Features

Item /Category	Brief description	Since
SOCKET	Optimized the behavior to obtain receiving format in TCP/UDP.	V1.2
RIL	Modified the buffer length of the RIL interface to 1400 bytes.	V1.2
OTHERS	Updated Functional Documents and AT Documents.	V1.3
ADC	Unrestricted the time interval limitation of ADC sampling. The minimum time interval can be configured as 10ms.	V1.3
OTHERS	Modified the implementation of QI_OS_GetMessage for dedicated scenarios – ADC/Normal EINT/Normal TIMER. This function will not return after the callback is called. It will go to the message receive code again internally to fetch the next message.	V1.3
OTHERS	Updated the RTC and LWM2M example.	V1.3
DFOTA	Supported upgrade APP bin file via DFOTA.	V1.3
GPIO	Added the GPIO pins (GPIO0, USB_MODE, GPIO6~GPIO8).	V1.4
TIMER	Added timer API for microsecond counting.	V1.4
TIMER	Added QI_Timer_Delete API to delete current timer ID.	V1.4
OTHERS	Added QI_Delay_us API to microsecond delay.	V1.4
UART	Added QI_UART_GetOption API to query UART parameters.	V1.4
OTHERS	Added QI_OS_GetCurrenTaskLeftStackSize API for querying remaining stack size for dedicated task.	V1.4
UART	Added QI_UART_GetOption API to query UART parameters.	V1.4
ADC	Added QI_ADC_Read API to single read ADC values.	V1.4
OTHERS	Added QI_OS_GetTaskTickCount and QI_OS_GetTaskTickCountFromISR API to count of ticks.	V1.4
SYSTEM	Updated the return value of event and mutex interfaces.	V1.4

3. Improved Features

Item/Category	Brief description	Since
RIL	Fixed the bug that change the RIL interface of network protocol to solve the problem of memory leakage.	V1.2
SOCKET	Fixed the bug that json data cannot be processed in TCP/UDP.	V1.2
OTHERS	Fixed the bug that the module will crash when frequent using AT+QRST.	V1.2
RIL	Fixed the bug that -4(RIL_AT_INVALID_PARAM) is returned when calling Ql_RIL_SendATCmd() to send non AT commands.	V1.2
GPIO	Fixed the bug that some GPIOs will hop during power on phase.	V1.3
ONENET	Fixed the bug that json data cannot be receive in onenet.	V1.3
UART	Fixed the bug that UART will be stuck when receive 1400 more bytes in one time.	V1.4
TIME	Fixed the bug that the time reading result is wrong when set a time-zone not equal to 32 using Ql_SetLocalTime API.	V1.4

4. Functions

Basic API								
UART	GPIO	EINT	PWM	ADC	IIC	SPI	SYSTEM	TIME
Y	Y	Y	Y	Y	Y	Y	Y	Y
TIMER	RTC	POWER	MEMORY	TRACE	STDLIB			
Y	Y	Y	Y	Y	Y			

RIL API					
AT	Secure Data	SOCKET	DFOTA	OneNET	LwM2M
Y	Y	Y	Y	Y	Y

NOTES

1. Y means the SDK supports this function.
2. N means the SDK does not support this function.