

- 1. 将demo目录\sdk\plactform\driver下的uart2文件复制到客户工程对应的目录下。
- 2. 将demo目录\sdk\plactform\reg下的reg_uart2.h文件复制到客户工程对应的文件,如果客户工程对应的目录已经有reg_uart2.h文件,则直接替换。

```
在BK3435_reg.h添加 宏定义
#define REG_APB3_UART2_CFG
                                           (*((volatile unsigned long *) 0x00806A00))
#define REG APB3 UART2 FIFO CFG
                                           (*((volatile unsigned long *) 0x00806A04))
#define REG_APB3_UART2_FIFO_STAT
                                           (*((volatile unsigned long *) 0x00806A08))
#define REG_APB3_UART2_PORT
                                            (*((volatile unsigned long *) 0x00806A0C))
#define REG_APB3_UART2_INT_ENABLE
                                                 (*((volatile unsigned long *) 0x00806A10))
#define REG_APB3_UART2_INT_STAT
                                              (*((volatile unsigned long *) 0x00806A14))
                                                (*((volatile unsigned long *) 0x00806A18))
#define REG_APB3_UART2_FLOW_CFG
                                                (*((volatile unsigned long *) 0x00806A1C))
#define REG_APB3_UART2_WAKE_CFG
   // UART
15: #if UART_ONE_ENBLE
   #define REG_APB3_UART_CFG
                                          ((volatile unsigned long
   #define REG_APB3_UART_FIFO_CFG
                                         (*((volatile unsigned long *)
                                                                      0x00806304))
   #define REG_APB3_UART_FIFO_STAT
                                         *((volatile unsigned long
                                                                      0x00806308)
   #define REG_APB3_UART_PORT
                                         (*((volatile unsigned long *)
                                                                      0x0080630C))
   #define REG_APB3_UART_INT_ENABLE
                                         *((volatile unsigned long
                                                                      0x00806310))
                                         (*((volatile unsigned long *)
   #define REG_APB3_UART_INT_STAT
                                                                      0x00806314)
   #define REG_APB3_UART_FLOW_CFG
                                         *((volatile unsigned long
                                                                      0x00806318)
   #define REG_APB3_UART_WAKE_CFG
                                         (*((volatile unsigned long *)
                                                                      0x0080631c))
14 -
   #endif
   #if 1//UART ONE ENBLE
   #define REG_APB3_UART2_CFG
                                         (*((volatile unsigned long *)
                                                                       0x00806A00))
   #define REG_APB3_UART2_FIF0_CFG
                                          *((volatile unsigned long
                                                                       0x00806A04)
   #define REG_APB3_UART2_FIFO_STAT
#define REG_APB3_UART2_PORT
                                         (*((volatile unsigned long
                                                                       0x00806A08))
                                          *((volatile unsigned long
                                                                       0x00806A0C))
50:
   #define REG_APB3_UART2_INT_ENABLE
                                                                       0x00806A10))
                                          *((volatile unsigned long
   #define REG APB3 UART2 INT STAT
                                          *((volatile unsigned long
                                                                       0x00806A14))
   #define REG_APB3_UART2_FLOW_CFG
#define REG_APB3_UART2_WAKE_CFG
                                          *((volatile unsigned long
                                                                       0x00806A18)
                                         (*((volatile unsigned long
                                                                       0x00806A1C)
#define INT_STATUS_UART2_bit
                                     (0x01 << 16)
  #define INT_STATUS_ADC_bit
                                  (0x01<< 8)
  #define INT_STATUS_I2C_bit
                                  (0x01 < 7)
  \#define\ INT\_STATUS\_SPI\_bit
                                  (0x01<<6)
  #if UART_ONE_ENBLE
  #define INT_STATUS_UART_bit
                                  (0x01 << 5)
  #define INT STATUS UART2 bit
                                   (0x01<<16)
  #define INT_STATUS_PWM4_bit
                                  (0x01<< 4)
     在int.h文件添加宏定义
#define INT STATUS UART2 bit
                                     (0x01 << 16)
#define INT_UART2_bit (0x01<<16)
#define INT STATUS SPI bit
                                      (0x01<< 6)
#if UART ONE ENBLE
#define INT STATUS UART bit
                                      (0x01 << 5)
#endif
#define INT_STATUS_UART2_bit
                                       (0x01<<16)
#define INT STATUS PWM4 bit
                                      (0x01<< 4)
#define"INT SPI bit
                                   (0x01<< 6)
#if UART ONE ENBLE
#define INT UART_bit
                                   (0x01 < < 5)
#endif
#define INT UART2 bit
                                    (0x01<<16)
#define INT PWM4 bit
                                   (0x01<< 4)
#define TNT PWM3 hit
                                   (0v01// 3)
```

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在int.c文件修改void intc_init(void)函数

```
void intc_init(void)
      // Clear all interrupts
     intc_enable_clear(INT_IRQ_BIT | FIQ_IRQ_BIT);
     // enable the supported interrupts
     intc_enable_set(INT_IRQ_BIT | FIQ_IRQ_BIT);
     intc_module_enable_set(INT_BLE_bit | INT_UART_bit | INT_UART2_bit);
在void IRQ_Exception(void)函数调用中断函数uart2_isr();
     #if (UART DRIVER)
      // call the function handler
```

```
if(IntStat & INT_STATUS_UART_bit)
    irq status |= INT STATUS UART bit;
    uart isr();
#endif
#if (UART DRIVER)
// call the function handler
if(IntStat & INT_STATUS_UART2_bit)
    irq_status |= INT_STATUS_UART2_bit;
    uart2 isr();
#endif
```

在arch_main.c文件rw_main()函数里调用uart2_init(115200);初始化函数和 6.

```
uart2_cb_register(uart2_rx_handler);函数
        intc_init();
        // Initialize UART component
86: #if (UART_DRIVER)
87:
        uart_init(115200);
        uart cb register(uart rx handler);
        uart2_init(115200);
        uart2_cb_register(uart2_rx_handler);//uart2.
91:
        uart_stack_register(uart_printf);
        flash_advance_init();
```

增加static void uart2_rx_handler(uint8_t *buf, uint8_t len)并且声明

```
#if (UART DRIVER)
static void uart_rx_handler(uint8_t *buf, uint8_t len)
    for(uint8_t i=0; i<len; i++)</pre>
        UART_PRINTF("0x%x ", buf[i]);
    UART PRINTF("\r\n");
static void uart2_rx_handler(uint8_t *buf, uint8_t len)//uart2.
    for(uint8_t i=0; i<len; i++)</pre>
        Uart2_printf("0x%x ", buf[i]);
    Uart2_printf("\r\n");
```

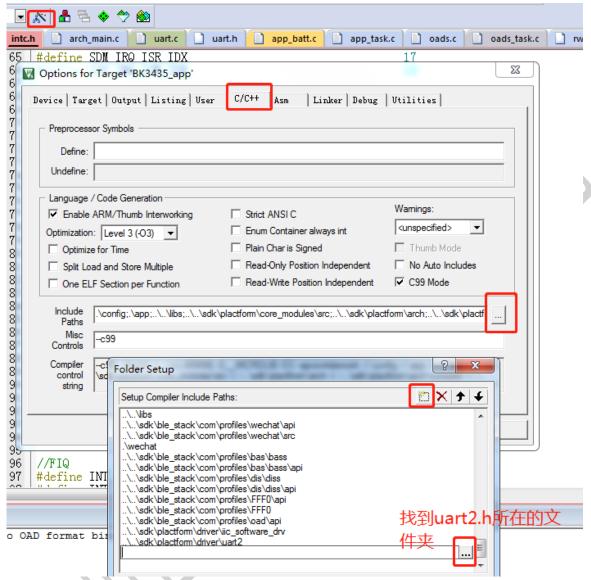
#endif

```
#if (UART_DRIVER)
void uart_rx_handler(uint8_t *buf, uint8_t len);
void uart2_rx_handler(uint8_t *buf, uint8_t len);//uart2. 函数声明
#endif
```



BK3432-BLE-SDK添加UART2说明

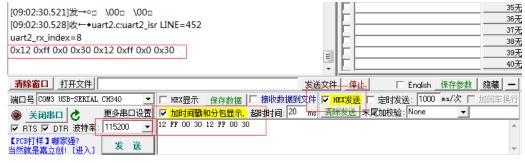
- 8. 在相应的文件下调用#include "uart2.h"头文件声明。注意P17、P16不要做任何配置。
- 9. 在keil工程里添加uart2.c和uart2.h文件。



10. 在arch_main.c文件rw_main()函数里调用Uart2_printf("Uart2_printf Mode Start\r\n");UART2 打印函数。

```
else //normal mode
{
     UART_PRINTF("NORMAL Mode Start\r\n");
     Uart2_printf("Uart2_printf Mode Start\r\n")
     rw_app_enter();
```

12. 打开串口助手,串口助手发送数据后,芯片会通过UART2将数据原样返回。



11.