

```
1
2
3 #ifndef UART_BLUETOOTH_H_
4 #define UART_BLUETOOTH_H_
5
6
7 #include <stdbool.h>
8 #include <stdint.h>
9
10 #ifndef F_CPU
11 #define F_CPU          16000000UL
12 #endif
13
14 #ifndef BAUD
15 #define BAUD            9600
16 #endif
17
18 #ifndef BRC
19 #define BRC              F_CPU/8/BAUD-1
20 #endif
21
22 #ifndef nullptr
23 #define nullptr          nullptr ((void*)0)
24 #endif
25
26 #define uartBufferSize      32
27 #define uartEndMsgChar      '$'
28 #define uartCarriageReturnChar 0x7F
29
30 #ifndef BIT_MANIPULATION_MACRO
31 #define BIT_MANIPULATION_MACRO 1
32 #define bit_get(p,m) ((p) & (m))
33 #define bit_set(p,m) ((p) |= (m))
34 #define bit_clear(p,m) ((p) &= ~(m))
35 #define bit_flip(p,m) ((p) ^= (m))
36 #define bit_write(c,p,m) (c ? bit_set(p,m) : bit_clear(p,m))
37 #define BIT(x) (0x01 << (x))
38 #define LONGBIT(x) ((unsigned long)0x00000001 << (x))
39 #endif
40
41
42 extern bool commandAvailable;
43
44 extern void initBluetoothUart();
45 extern void transmitMessage(uint8_t* message, uint8_t length);
46 extern void transmitMessageSync(uint8_t* message, uint8_t length);
47 extern bool transmissionState();
48 extern void setupReceiveMode();
49 extern void processReceivedLine();
50 extern void disableUART();
51
52
```

53

54 #endif /* UART_BLUETOOTH_H_ */