

```

1  /*****
2  *
3  *   _____   _____   _____   _____   _____   _____
4  *   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
5  *   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
6  *   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
7  *   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
8  *   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
9  *****/
10 *
11 * File      : SerialTimer.h
12 * Version   : 1.0
13 *
14 *****/
15 *
16 * Description : Emulate a serial port on a GPIO pin using a timer
17 *
18 *****/
19 *
20 * Author      : Miguel Santos
21 * Date        : 14.09.2023
22 *
23 *****/
24 *
25 * MPLAB X      : 5.45
26 * XC32         : 2.50
27 * Harmony      : 2.06
28 *
29 *****/
30
31 /* Guard against multiple inclusion */
32 #ifndef SERIAL_TIMER_H
33 #define SERIAL_TIMER_H
34
35 /*****/
36
37 #include <stdint.h>
38 #include <stdbool.h>
39
40 /*****/
41
42 /* Size of the buffer */
43 #define STR_BUFFER_SIZE 0xFF
44
45 /* Default value of the buffer */
46 #define STR_BUFFER_DEFAULT 0x00
47
48 /*****/
49
50 void STR_Init( void );
51
52 /*****/
53
54 void STR_AddBuffer(uint8_t *data, uint8_t size);
55
56 /*****/
57
58 void STR_Start( void );
59
60 /*****/
61
62 void STR_CallBack( void );
63
64 #endif /* SERIAL_TIMER_H */
65
66 /* End of File *****/
67

```