```
1 /**
    * \file
 2
    * Functions and types for CRC checks.
 3
 5
    * Generated on Wed Sep 11 13:55:53 2019
    * by pycrc v0.9.2, https://pycrc.org
 7
    * using the configuration:
    * - Width
 8
                        = 8
 9
    * - Poly
                        = 0 \times 07
    * - XorIn
10
                        = 0x00
    * - ReflectIn
                       = False
11
    * - XorOut
12
                        = 0x00
    * - ReflectOut
13
                       = False
    * - Algorithm
14
                       = bit-by-bit-fast
15
    */
16 #include "crc.h"
                       /* include the header file generated with pycrc */
17 #include <stdlib.h>
18 #include <stdint.h>
19 #include <stdbool.h>
20
21
22
23 crc_t crc_update(crc_t crc, const void *data, size_t data_len)
24 {
25
        const unsigned char *d = (const unsigned char *)data;
26
       unsigned int i;
27
       bool bit;
28
       unsigned char c;
29
30
       while (data_len--) {
31
            c = *d++;
32
            for (i = 0x80; i > 0; i >>= 1) {
                bit = crc & 0x80;
33
34
                if (c & i) {
35
                   bit = !bit;
36
                }
37
                crc <<= 1;</pre>
38
                if (bit) {
39
                   crc ^= 0x07;
40
                }
41
42
            crc &= 0xff;
43
44
       return crc & 0xff;
45 }
46
```