

```
1  #ifndef DS18B20_H_INCLUDED
2  #define DS18B20_H_INCLUDED
3
4
5  #define SKIP_ROM          0
6  #define NO_SKIP_ROM      1
7
8
9  #define RESOLUTION_9BIT    0x1F
10 #define RESOLUTION_10BIT   0x3F
11 #define RESOLUTION_11BIT   0x5F
12 #define RESOLUTION_12BIT   0x7F
13
14
15
16
17
18 void      DS18B20_PortInit(void);
19 uint8_t   DS18B20_Init(uint8_t mode);
20 void      DS18B20_MeasureTemperCmd(uint8_t dev, uint8_t mode);
21 void      DS18B20_ReadStratchpad(uint8_t dev, uint8_t mode);
22 uint8_t   DS18B20_GetSign(uint8_t dev);
23 float     DS18B20_Convert(uint8_t dev);
24
25
26 __STATIC_INLINE void Delay_us(__IO uint32_t us){
27
28     us *= (SystemCoreClock / 12000000);
29     while(us--);
30 }
31
32
33
34 #endif /* DS18B20_H_INCLUDED */
```