

AtomS3R IR 红外发送

AtomS3R IR 红外发送相关库与案例程序。

| 案例程序

| 编译要求

- M5Stack 板管理版本 $\geq 3.2.2$
- 开发板选项 = M5AtomS3R
- M5Unified 库版本 $\geq 0.2.17$
- M5GFX 库版本 $\geq 0.2.22$
- [IRremote](#) 库版本 $\geq 4.5.0$

```
1  #include "M5Unified.h"
2  #include <IRremote.hpp>
3
4  #define IR_SEND_PIN    47
5
6  // Demo parameters for NEC protocol
7  uint16_t address = 0x0000;    // Starting device address
8  uint8_t  command = 0x55;      // Starting command value
9  uint8_t  repeats = 0;        // Number of repeat transmissions
10
11 void setup() {
12     M5.begin();                // Initialize M5Stack device
13     Serial.begin(115200);      // Start serial communication at 115200 baud
14     Serial.println("AtomS3U IRremote example");
15     delay(200);                // Wait for serial port to stabilize
16
17     pinMode(IR_SEND_PIN, OUTPUT); // Essential! Otherwise can not transmit
18
19     // Initialize IR communication
20     IrSender.begin(DISABLE_LED_FEEDBACK); // Initialize IR sender without LED feedback
21     IrSender.setSendPin(IR_SEND_PIN);    // Assign transmitter pin
22
23     Serial.printf("IR Send Pin: %d\n", IR_SEND_PIN);
24     delay(500); // Wait for hardware components to stabilize
25 }
26
27 void loop() {
28     // Send infrared signal using NEC protocol
29     Serial.printf("Send NEC: addr=0x%04x, cmd=0x%02x\n", address, command);
30     IrSender.sendNEC(address, command, repeats);
31
32     // Update transmission parameters for next cycle
33     address += 0x0001; // Increment device address
34     command += 0x01;   // Increment command code
35     repeats  = 0;      // Disable repeat frames (set >0 to test repeats)
36
37     delay(2000);
38 }
```

AtomS3R 每两秒发送一次 NEC 红外信号，地址（Address）和命令（Command）分别从 0x0000 和 0x55 开始递增，可以使用支持 NEC 协议的红外接收设备进行接收验证。

驱动库

- [IRremote](#)