

Unit PoE-P4 IR Transmit

Unit PoE-P4 IR transmit related libraries and example.

| Example

| Compilation Requirements

- M5Stack Board Manager version $\geq 3.2.6$
- Development board option = M5UnitPoEP4
- M5Unified library version $\geq 0.2.13$
- [IRremote library](#) version $\geq 4.5.0$

```
1  #include <IRremote.hpp>
2  #include <M5Unified.h>
3
4  #define IR_SEND_PIN    14
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     delay(200);                // Wait for serial port to stabilize
15
16     Serial.println("Unit PoE-P4 IRremote example");
17
18     // Initialize IR communication
19     IrSender.begin(DISABLE_LED_FEEDBACK); // Initialize IR sender without LED feedback
20     IrSender.setSendPin(IR_SEND_PIN);    // Assign transmitter pin
21
22     Serial.printf("IR Send Pin: %d\n", IR_SEND_PIN);
23     delay(500); // Wait for hardware components to stabilize
24 }
25
26 void loop() {
27     // Send infrared signal using NEC protocol
28     Serial.printf("Send NEC: addr=0x%04x, cmd=0x%02x\n", address, command);
29     IrSender.sendNEC(address, command, repeats);
30
31     // Update transmission parameters for next cycle
32     address += 0x0001; // Increment device address
33     command += 0x01;   // Increment command code
34     repeats  = 0;      // Disable repeat frames (set >0 to test repeats)
35
36     delay(2000);
37 }
```

Unit PoE-P4 transmits an NEC infrared frame every two seconds. The address and command values start at 0x0000 and 0x55, respectively, and increment on each transmission. You can verify reception using any remote that supports the NEC protocol.

Driver Library

- [IRremote](#)