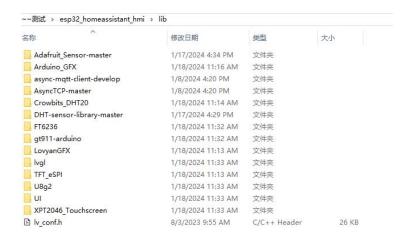
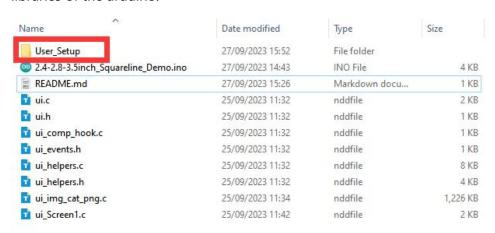
2.8inch_Squareline_Demo Download Introduction

1. Operation before downloading cases

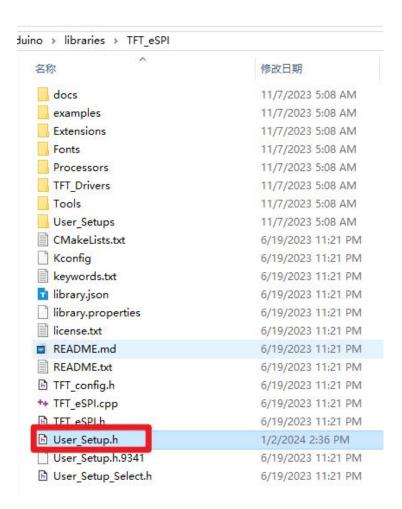
(1) Place all the lib library files provided in the folder into the libraries file of the arduino.



(2) Copy User_Setup.h from the case User_Setup file to the TFT_eSPI folder in the libraries of the arduino.

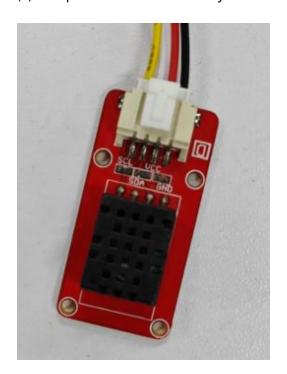




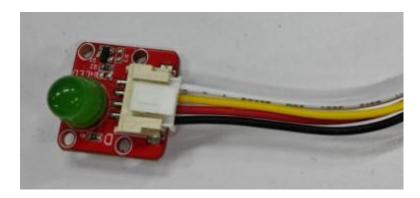


Sensor wiring:

(1) Temperature and humidity sensor (Crowtail-DHT20-V1.0) with IIC interface



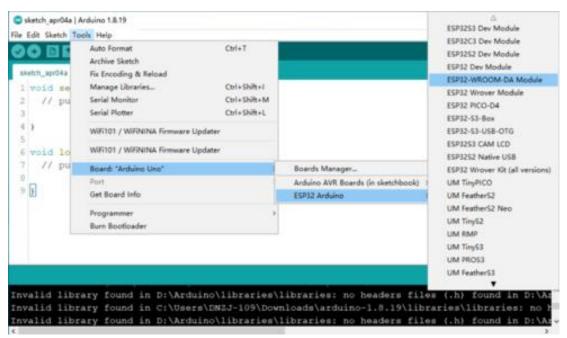
(2) LED to IO32 port

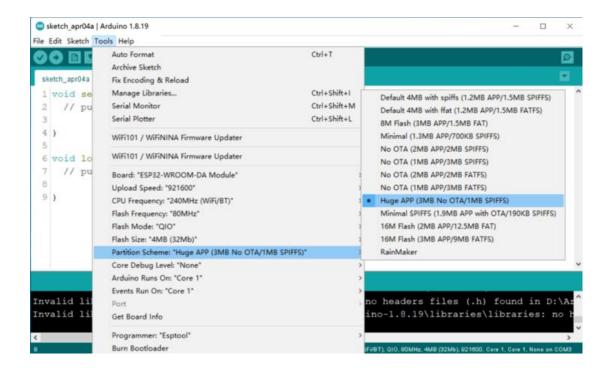


Use arduino software to open
 Squareline_Demo.ino, arduino related operations
 refer to this screen wiki

(https://www.elecrow.com/wiki/index.php?title=ESP32_Display_2.8%27%27_Intelligent Touch Screen Wi-Fi%26BLE 240*320 HMI Display)

Download Settings:





3. Download the programme.

4. Operational effects.



5. Explanation of key points with MQTT

(1) WiFi and server address settings, the network needs to be in the same LAN, the server address and port that is the address and port automatically generated by Raspberry Pi.

```
File Edit Sketch Tools Help
2.8inch_Squareline_Demo
 14 #define Display 28
                              //according to the board you
 15
 16 #define LED 32
 18 #define WIFI SSID "yanfa software"
 19 #define WIFI PASSWORD "yanfa-123456"
 21 // Raspberry Pi Mosquitto MQTT Broker
 22 #define MQTT HOST IPAddress(192, 168, 50, 233)
 23
 24 // For a cloud MQTT broker, type the domain name
 25 //#define MQTT HOST "example.com"
 26 #define MQTT PORT 1885
 27
```

(2) MQTT theme settings, the specific parameters are set according to the contents of the configuration.yaml file on the MQTT server.

```
// Temperature MQTT Topics

29 #define MQTT_PUB_LED_S "esp32/led/state"

30 #define MQTT_PUB_LED_C "esp32/led/command"

31 #define MQTT_PUB_TEMP "esp32/temperature"

32 #define MQTT_PUB_HUM "esp32/humidity"

33 #define mqtt_username "elecrow"

34 #define mqtt_password "elecrow2014"
```