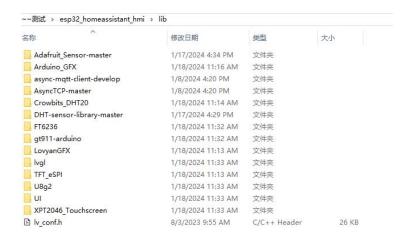
2.4inch_Squareline_Demo

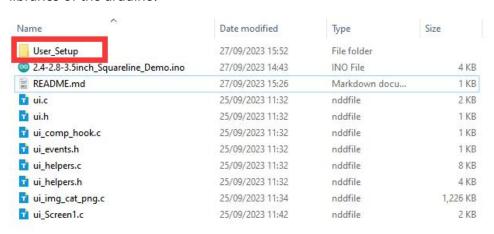
Download Introduction

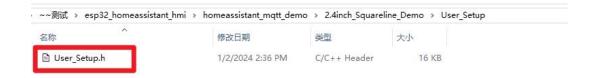
1. Operation before downloading cases

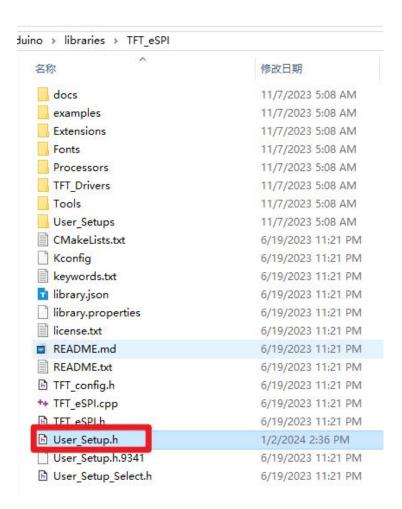
(1) Place all the lib library files provided in the folder into the libraries file of the arduino.



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

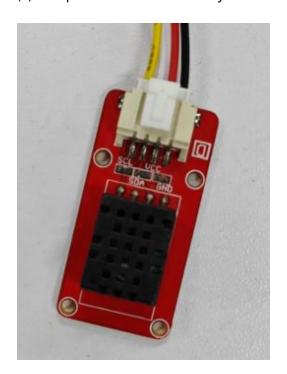






Sensor wiring:

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



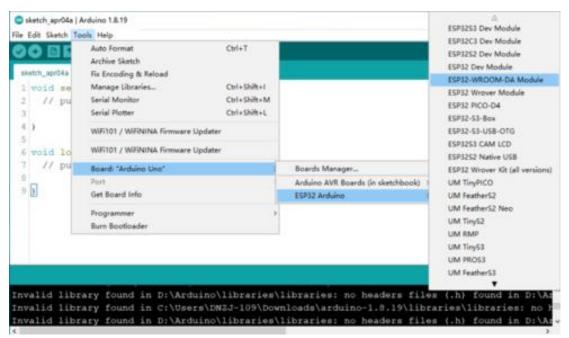
(2) LED to IO32 port

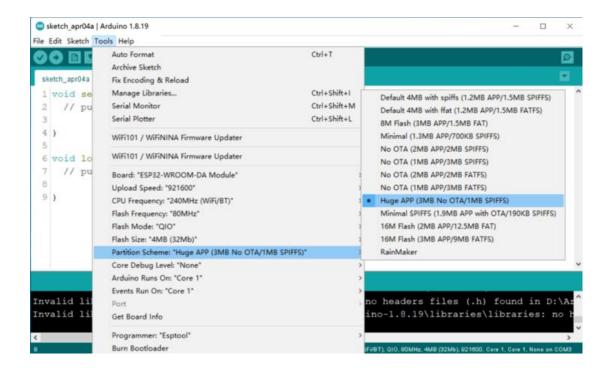


Use arduino software to open
 4inch_Squareline_Demo.ino, arduino related operations
 refer to this screen wiki

(https://www.elecrow.com/wiki/index.php?title=ESP32_Display_2.4%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
2.4inch_Squareline_Demo
 10 }
 11 #include < AsyncMqttClient.h>
 12 #include <Crowbits DHT20.h>
 14 #define Display 24
                             //according to the board you using ,if you using
 1.5
 16 #define LED 32
 18 #define WIFI SSID "yanfa software"
                                                 WiFi
 19 #define WIFI PASSWORD "yanfa-123456"
 21 // Raspberry Pi Mosquitto MQTT Broker
 22 #define MQTT HOST IPAddress(192, 168, 50, 233)
                                                             Address
 24 // For a cloud MQTT broker, type the domain name
 25 //#define MQTT HOST "example.com"
 26 #define MQTT_PORT 1885
```

(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
// Temperature MQTT Topics
// #define MQTT_PUB_LED_S "esp32/led/state"
// #define MQTT_PUB_LED_C "esp32/led/command"
// #define MQTT_PUB_TEMP "esp32/temperature"
// #define MQTT_PUB_HUM "esp32/humidity"
// #define mqtt_username "elecrow"
// #define mqtt_password "elecrow2014"
```