

APRS LoRa Dongle V.1

How to first configuration

Connect by config wifi STA Mode. (Recommend)

1. Set wifi router/share by phone SSID: **APRSTH** Password: **aprsthnetwork**
2. Find IP by push B in the [WIFI Info] menu display show IP address.
3. Go to web client http://IP_Address
4. Web service UserID: **admin** Password: **admin**

Connect by wifi AP Mode.

1. Connect to SSID: **ESP32APRS_LoRa** Pass: **aprsthnetwork**
2. Go to web client <http://192.168.4.1>
3. Web service UserID: **admin** Password: **admin**

APRS LoRa Project link

Source code: https://github.com/nakhonthai/ESP32APRS_LoRa

Firmware Releases : https://github.com/nakhonthai/ESP32APRS_LoRa/releases

HAM APRS Service

APRS-IS: aprs.dprns.com port 14580

APRS-IS Monitor: <http://aprs.dprns.com:14501>

APRS Map: <http://aprs.nakhonthai.net>

CB APRS Service

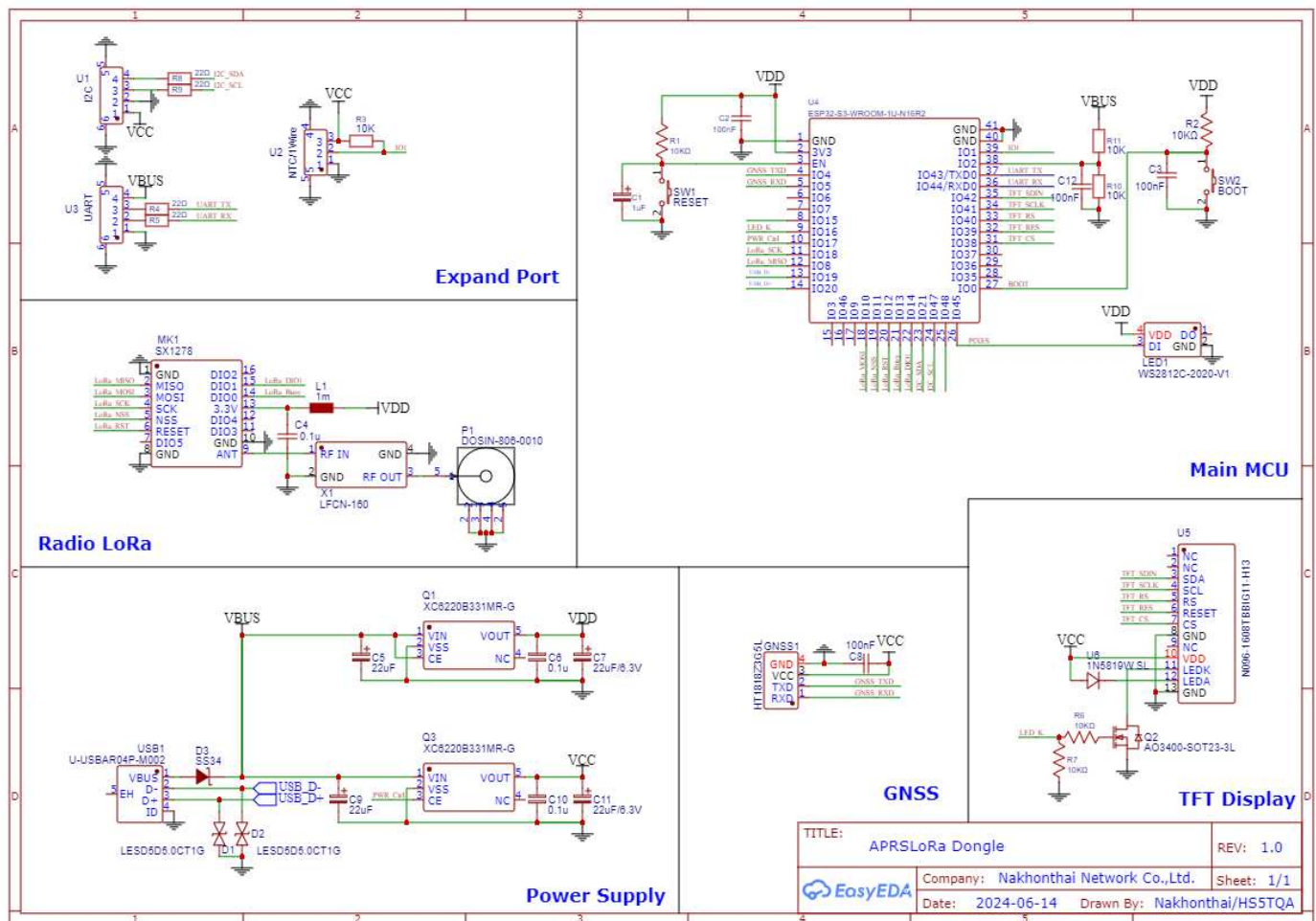
CBAPRS-IS: aprs.dprns.com port 24580

CBAPRS-IS Monitor: <http://aprs.dprns.com:24501>

CBAPRS Map: <http://aprs.nakhonthai.net>

Contact

| | |
|-----------|---|
| Callsign: | HS5TQA,Atten,Nakhonthai |
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Schematic Diagram

GPIO Interface

| Port interface | | TFT Display interface | | LoRa Chip interface | |
|----------------|---------|-----------------------|-----------|---------------------|----------------|
| IO2 | ADC | IO42 | TFT_SDIN | IO12 | LoRa_RESET |
| IO4 | GNSS_RX | IO41 | TFT_SCLK | IO11 | LoRa_NSS |
| IO5 | GNSS_TX | IO40 | TFT_RS | IO13 | LoRa_DIO0(IRQ) |
| IO16 | LED_TFT | IO39 | TFT_RESET | IO14 | LoRa_DIO1 |
| IO17 | PWR_CTL | IO38 | TFT_CS | IO18 | LoRa_SCLK |
| | | | | IO8 | LoRa_MISO |
| | | | | IO10 | LoRa_MOSI |

| U1 Expand port | |
|----------------|------------------|
| Pin | GPIO/Description |
| 1 | VCC (3.3V) |
| 2 | GND |
| 3 | IO47 (I2C_SCL) |
| 4 | IO21 (I2C_SDA) |

| U3 Expand port | |
|----------------|------------------|
| Pin | GPIO/Description |
| 1 | GND |
| 2 | IO44 (UART_RX) |
| 3 | IO43 (UART_TX) |
| 4 | VBUS (5VUSB) |

| U2 Expand port | |
|----------------|------------------|
| Pin | GPIO/Description |
| 1 | GND |
| 2 | IO1 (Pullup 10K) |
| 3 | VCC (3.3V) |