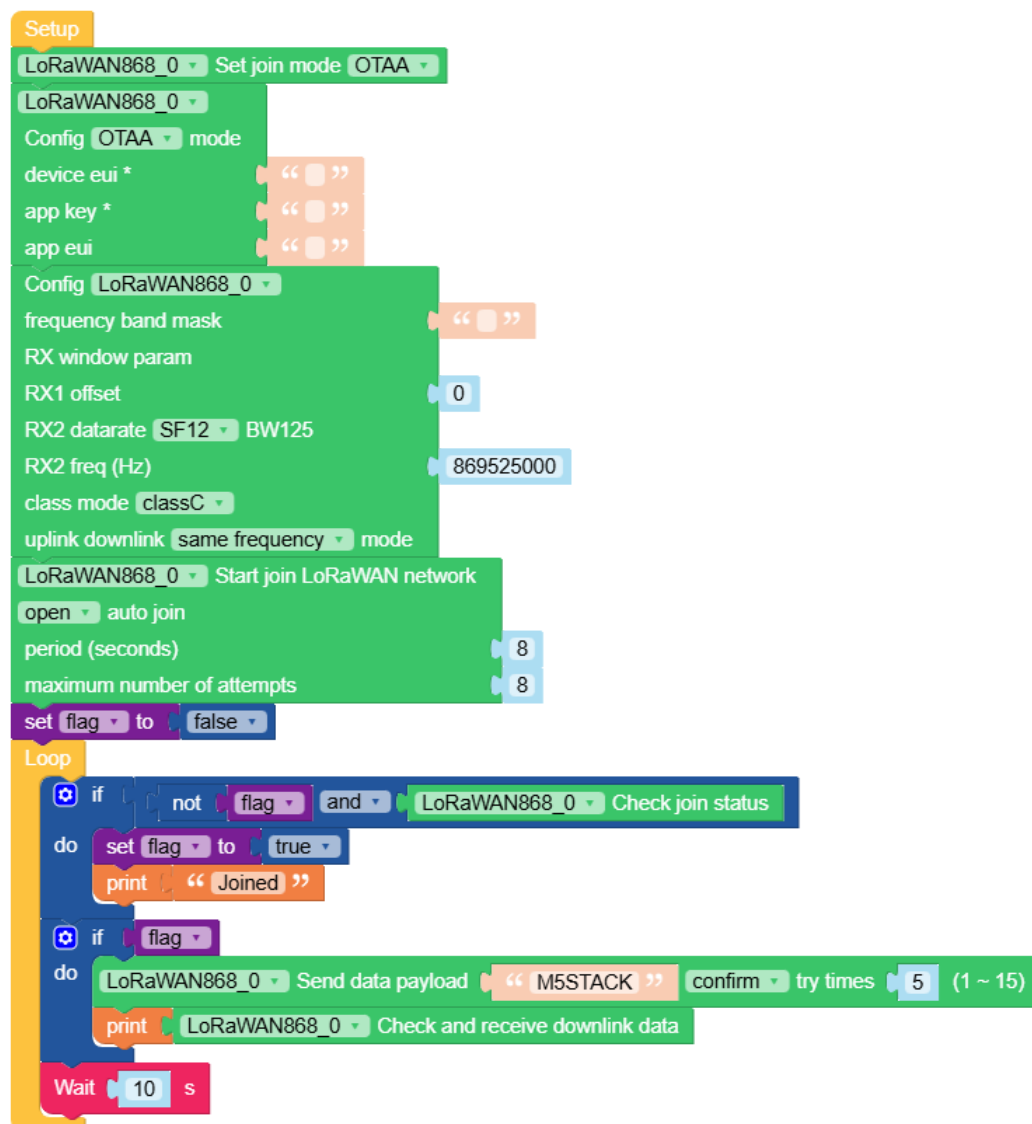


Unit LoRaWAN868

| Example

Configure LoRaWAN868 and connect to the network



```

from m5stack import *
from m5ui import *
from uiflow import *
import time
import unit

setScreenColor(0x222222)
LoRaWAN868_0 = unit.get(unit.LoRaWAN, unit.PORTC)

flag = None

LoRaWAN868_0.set_join_mode(0)
LoRaWAN868_0.config_OTAA('', '', '')
LoRaWAN868_0.set_frequency_band_mask('')
LoRaWAN868_0.set_rx_window_param(0, 0, 869525000)
LoRaWAN868_0.set_class_mode(2)
LoRaWAN868_0.set_uplink_downlink_mode(1)
LoRaWAN868_0.join(1, 1, 8, 8)
flag = False
while True:
    if not flag and LoRaWAN868_0.check_join_status():
        flag = True
        print('Joined')
    if flag:
        LoRaWAN868_0.send_data('M5STACK', 1, 5)
        print(LoRaWAN868_0.check_downlink_data())
    wait(10)
    wait_ms(2)

```

API

LoRaWAN868_0 Set core uart ID num 1

LoRaWAN868_0.uart_port_id(1)

◦ Set Core UART ID

LoRaWAN868_0 Check and receive downlink data

```
print((str('ckeck downlink data:') + str(LoRaWAN868_0.check_downlink_data())))
```

◦ Check and Receive Downlink Data

LoRaWAN868_0 Check join status

```
print((str('status:') + str(LoRaWAN868_0.check_join_status())))
```

-Check Join Status

LoRaWAN868_0 Check uplink data status

```
print((str('uplink data status:') + str(LoRaWAN868_0.check_uplink_status())))
```

◦ Check Uplink Data Status

Config LoRaWAN868_0

frequency band mask " "

RX window param

RX1 offset 0

RX2 datarate SF12 BW125

RX2 freq (Hz) 869525000

class mode classA

uplink downlink same frequency mode

```
LoRaWAN868_0.set_frequency_band_mask('')
LoRaWAN868_0.set_rx_window_param(0, 0, 869525000)
LoRaWAN868_0.set_class_mode(0)
LoRaWAN868_0.set_uplink_downlink_mode(1)
```

◦ Configure Config Parameters

- frequency band mask: Frequency band mask
- RX window param: Receive window parameters
- RX1 offset: RX1 window offset
- RX2 datarate SF12 BW125: RX2 window data rate (Spreading Factor 12, Bandwidth 125kHz)
- RX2 freq(H1): RX2 window frequency
- class mode classA: Device mode (Class A)
- uplink downlin same frequency mode: Uplink and downlink same frequency mode

LoRaWAN868_0

Config OTAA mode

device eui * " "

app key * " "

app eui " "

```
LoRaWAN868_0.config_OTAA('afeafe53453453adsfsdf423', 'gffgfd5-546fgdg-ggfd', '33453453-4564-54')
```

◦ Config OTAA mode

- device eui
- app key
- app eui

LoRaWAN868_0 Get ABP config

```
print((str('ABP Config:') + str(LoRaWAN868_0.get_ABP_config())))
```

- Get ABP Configuration

LoRaWAN868_0 ▾ Get OTAA config

```
print((str('OTAA Config:') + str(LoRaWAN868_0.get_OTAA_config())))
```

- Get OTTA Configuration

LoRaWAN868_0 ▾ Start join LoRaWAN network

open ▾ auto join

period (seconds) 8

maximum number of attempts 1

```
LoRaWAN868_0.join(1, 1, 8, 1)
```

- Join LoRaWAN Network Configuration
 - open auto jion
 - period (seconds)
 - maximum number of attempts

LoRaWAN868_0 ▾ Stop join LoRaWAN network

```
LoRaWAN868_0.join(0)
```

- Stop Joining LoRaWAN Network

LoRaWAN868_0 ▾ Receive downlink data from buffer

```
print((str('downlink data:') + str((LoRaWAN868_0.receive_data()))))
```

- Receive Downlink Data from Buffer

LoRaWAN868_0 ▾ Send data payload “ ” unconfirm ▾

```
LoRaWAN868_0.send_data('')
```

- Send Data Payload

LoRaWAN868_0 ▾ Set join mode OTAA ▾

```
LoRaWAN868_0.set_join_mode(0)
```

- Set Join Mode
 - OTTA
 - ABP

LoRaWAN868_0 Set uplink app port 1 (1 ~ 233)

```
LoRaWAN868_0.set_uplink_app_port(1)
```

- Set Uplink Application Port (1~233)