

# T-Display-S3-Pro-MVSRLora\_V1.0 Power Consumption Test Log

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Test board: T-Display-S3-Pro-MVSRLora\_V1.0 (202411151156)

Software name: Deep\_Sleep\_Wake\_Up.ino Testing organization: LILYGO Laboratory

# 1. Test Environment Description

1.1 测试环境

1.1 Test environment

Test Tools	Sampling speed	Test Methodology	Input voltage	Test environment temperature	
BLU939	100000 times/s	Battery Interface Measurement	+4.0V	25°C/77°F	

1.2 测试的器件型号

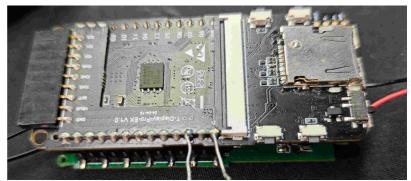
1.2 Test device model

Test device	MCU	RTC	Power amplifier	Microphone	Power 3.3V	Lora
Corresponding model	ESP32S3	PCF85063	MAX98357AETE+T	MP34DT05TR-A	RT9080	HPD16E(LR1211)

# 2. Test Physical Object Image







### 3. Modification Instructions

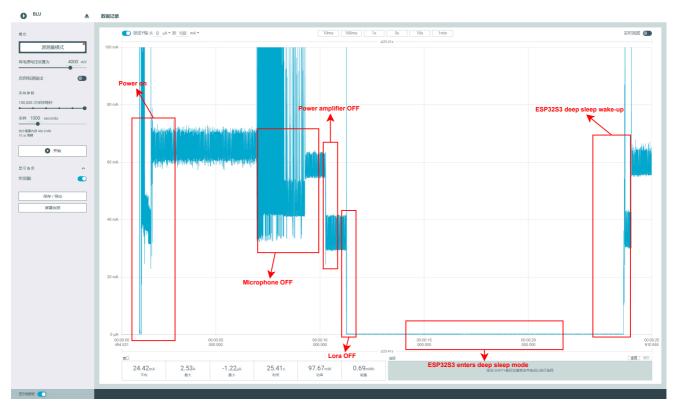
- 3.1 拆除RTC位置的备用电池,并且不接屏幕
- 3.1 Remove the backup battery at the RTC location and do not connect the screen.



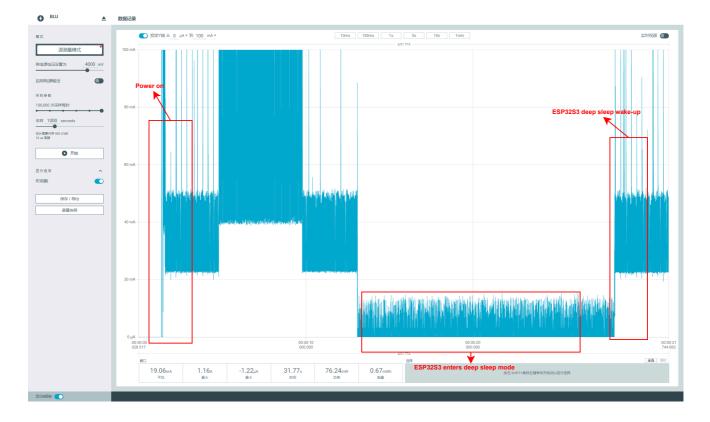


# 4. Power consumption testing

- 4.1 T-Display-S3-Pro主板+T-Display-S3-Pro-MVSRLora背板总电流变化测试图如下
- 4.1 The total current change test diagram for the T-Display-S3-Pro motherboard + T-Display-S3-Pro-MVSRLora backplane is as follows.



- 4.2 T-Display-S3-Pro主板总电流变化测试图如下
- 4.2 The total current change test diagram for the T-Display-S3-Pro motherboard is as follows.

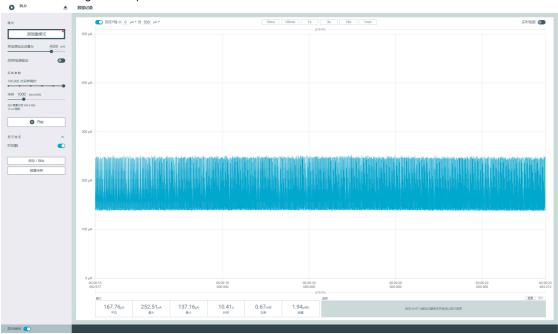




#### 4.3 T-Display-S3-Pro motherboard + T-Display-S3-Pro-MVSRLora backplane Current Test Status Diagram:

ESP32S3	Power 3.3V	RTC	Power amplifier	Microphone	Lora
Deep Sleep	ON	ON	OFF	OFF	Sleep





T-Display-S3-Pro motherboard Current Test Status Diagram:

ESP32S3	Power 3.3V	RTC	Power amplifier	Microphone	Lora
Deep Sleep	NULL	NULL	NULL	NULL	NULL

# Test result: average 137.77 μA

