

T-Display-S3-Pro-MVSRBoard_V1.1 Power Consumption Test Log

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Test board: T-Display-S3-Pro-MVSRBoard_V1.1 (202411181741)

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

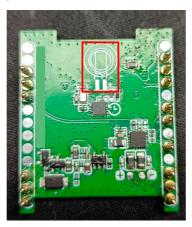
1.2 测试的器件型号

1.2 Test device model

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

2. Modification Instructions

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



3. Test Physical Object Image

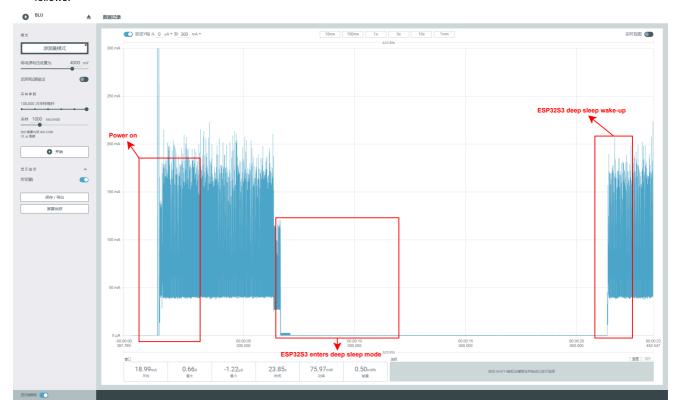






4. Power consumption testing

- 4.1 T-Display-S3-Pro主板+T-Display-S3-Pro-MVSRBoard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-MVSRBoard 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.

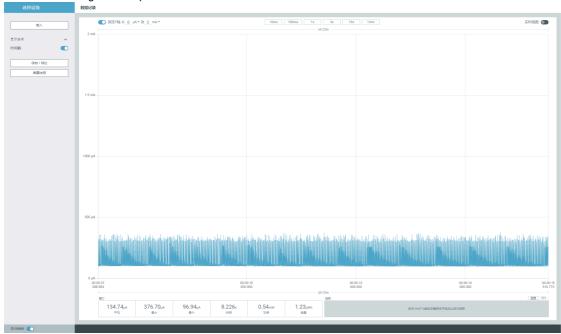




4.3 T-Display-S3-Pro motherboard + T-Display-S3-Pro-MVSRBoard backplane Current Test Status Diagram:

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

Test result: average 134.74 µA



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

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

Test result: average 133.52 μA

