

# T-Display-P4\_V1.0 Power Consumption Test Log

Date: 20250514  
LastEditTime: 20250605  
Test board: T-Display-P4\_V1.0 (2025-4-12)  
Software name: deep\_sleep  
Testing organization: LILYGO Laboratory

## 测试环境 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

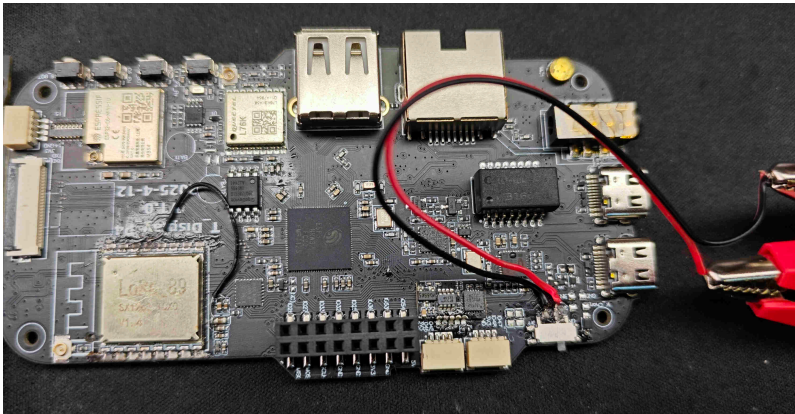
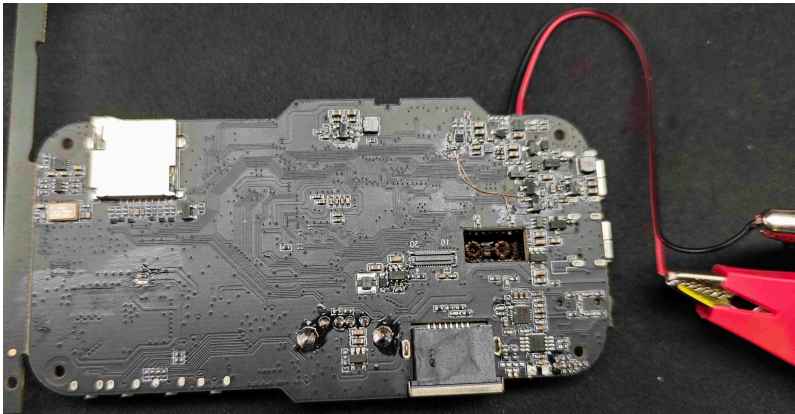
## 测试的器件型号 Test device model

Test device	MCU	Sub-MCU	RTC	Power Amplifier	DAC ADC	GPS	Lora	IMU
Corresponding model	ESP32P4	ESP32C6	PCF8563	NS4150B	ES8311	L76K	HPD16A(SX1262)	ICM20948

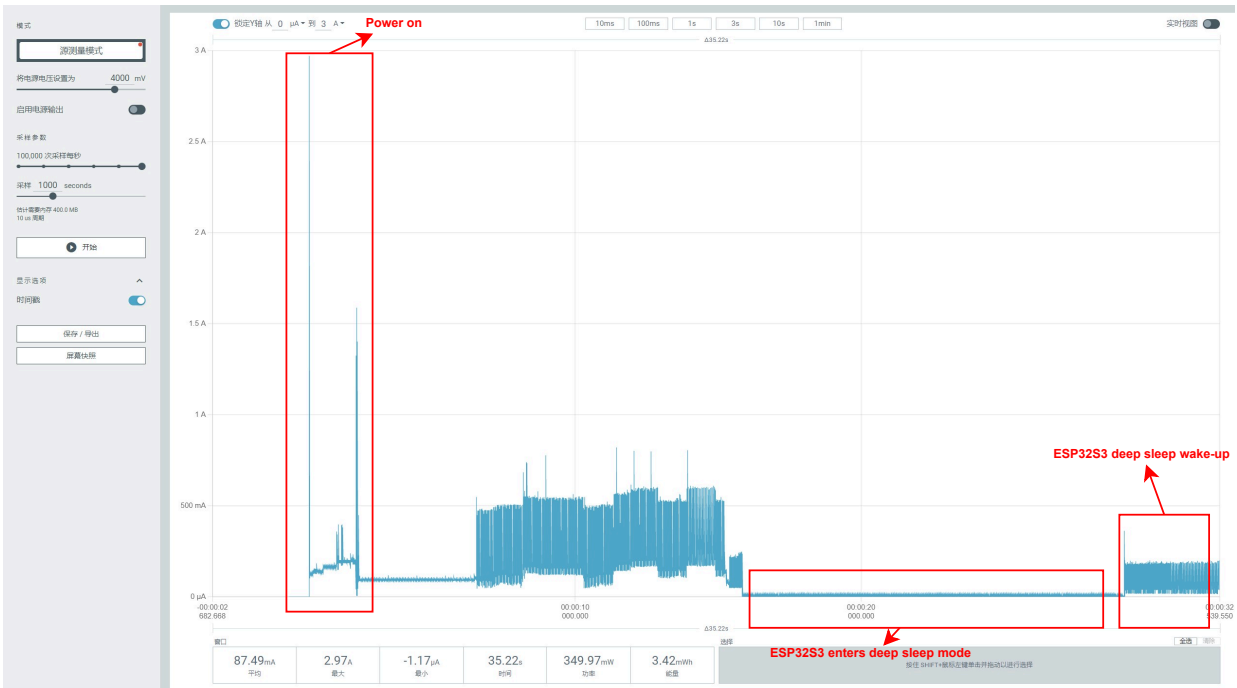
Test device	Battery Health	Vibration Motor Drive	IO Expansion	Camera	Ethernet	USB Bridges
Corresponding model	BQ27220YZFR	AW86224AFCR	XL9535	SC2336	IP101GRI	CP2104

1. Test Case 1: Single Board Power Consumption, using the firmware [T-Display-P4] [deep\_sleep][single\_board]\_firmware\_202505301450.bin. The board has full functionality, with the camera and screen removed.

1.1 Test Physical Object Image



1.2 总电流变化测试图如下  
1.2 The total current variation test diagram is as follows:



1.3 深度睡眠平均功耗大约为1.2ma  
1.3 The average power consumption in deep sleep mode is about 1.2 mA.

