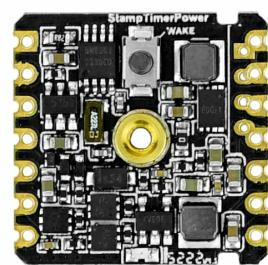
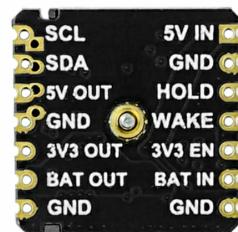


Stamp Timer Power

SKU:S005



Description

StampTimerPower is a **low-power power control module** with built-in **RTC wake-up** in a **STAMP series package**, with **manual wake-up + manual sleep + RTC timing wake-up + battery charging + 5V boost output + 3V3 power output** and other functions, and the RTC adopts **BM8563**, The **overflow time** can be set to wake up the module for power. The module is available in a STAMP package and can be used as a **power supply part for low-power products** by using **SMD**, **DIP**, and flying wires.

Features

- Multi-IO lead-out, support multiple application forms (SMT, DIP, flying wire)
- Manual or software-timed wake-up or hibernation
- Lithium battery charging and 5V boost
- 3.3V output DCDC circuit

Includes

- 1x StampTimerPower
- 1x 2.0mm hex key
- 1x HY2.0-4P terminal

Applications

- Low power consumption product power section
- Low-power time-lapse camera
- Battery doorbell
- Wearables
- Smart home

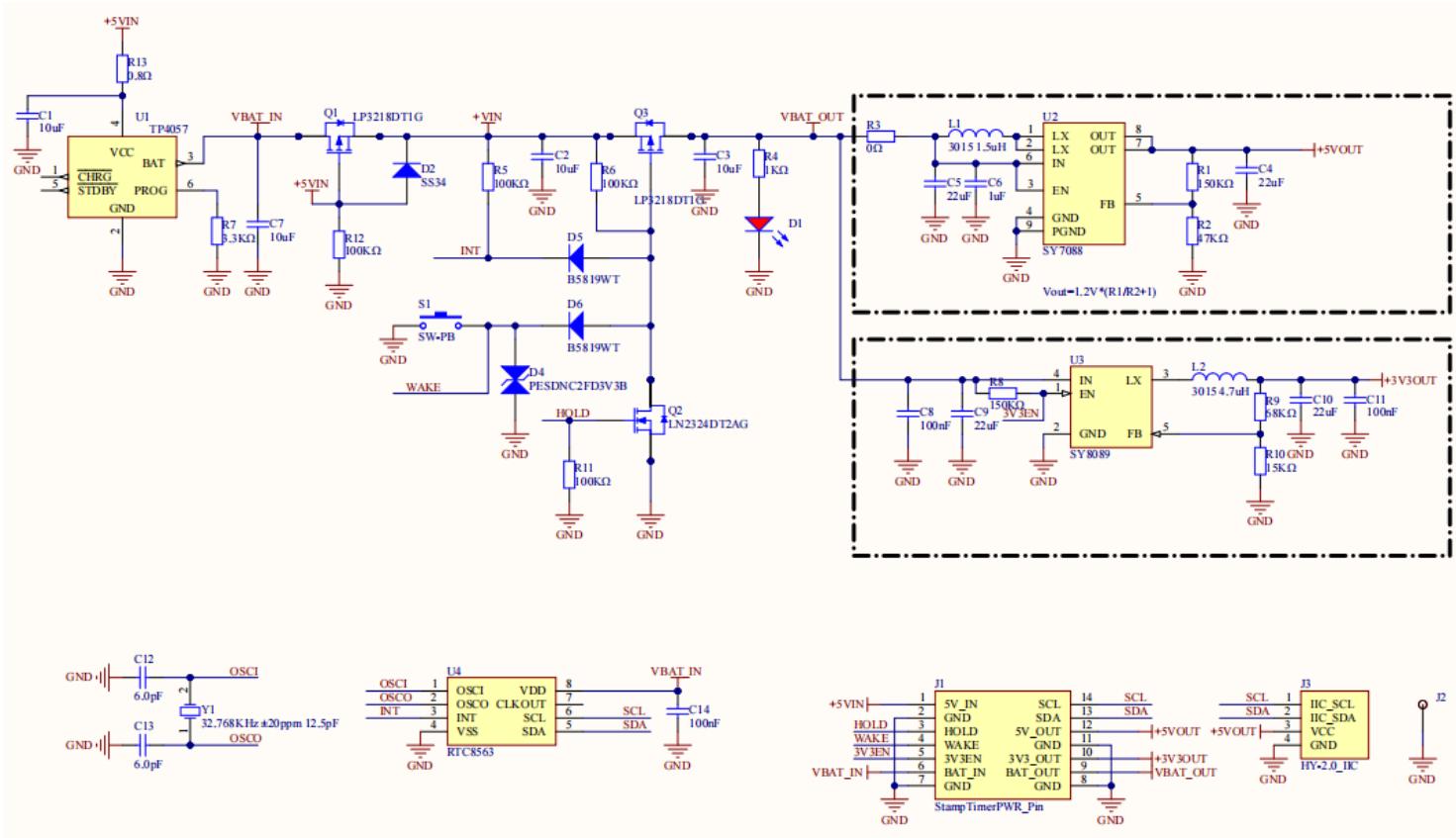
Specifications

Resources	Parameters
RTC	BM8563
Battery management IC	TP4057
I2C mailing address	default 0x51、0xA2(write)、0xA3(read)
IO interface spacing	2.54mm
Fixing screw specifications	M2*4 countersunk hexagonal mechanical teeth
Operating temperature	0°C to 60°C
Product Size	20mm × 20mm × 5mm
Package Size	136mm × 92mm × 13mm
Product Weight	2.6g
Package Weight	5.8g

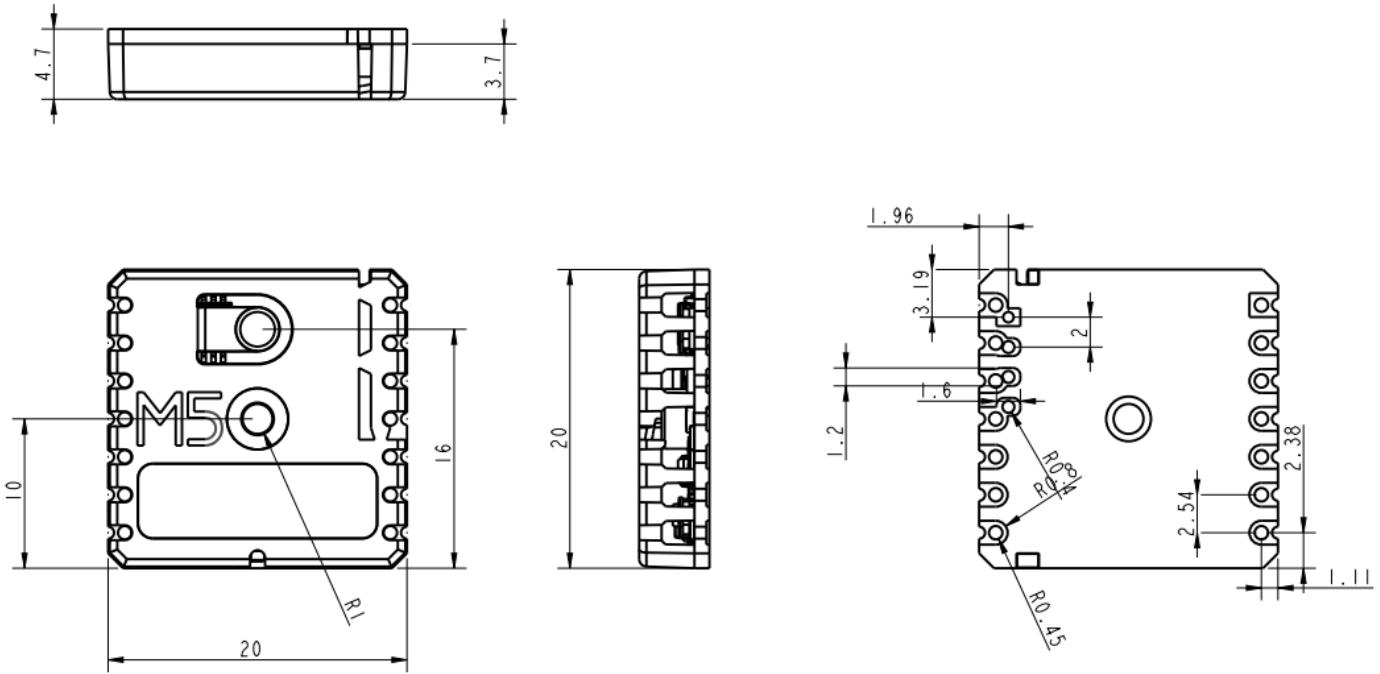
Related Link

- [BM8563](#)
- [TP4057](#)

Schematics



Model Size



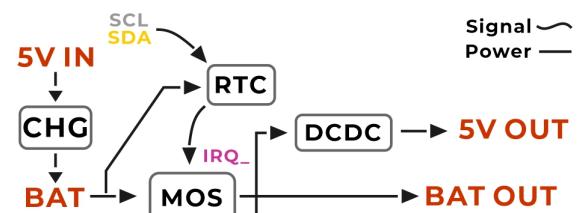
Softwares

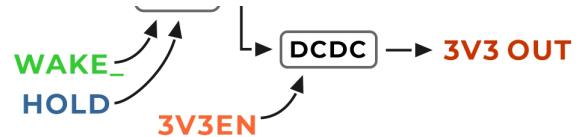
Arduino

- [M5Stamp-TimerPower Arduino Example](#)

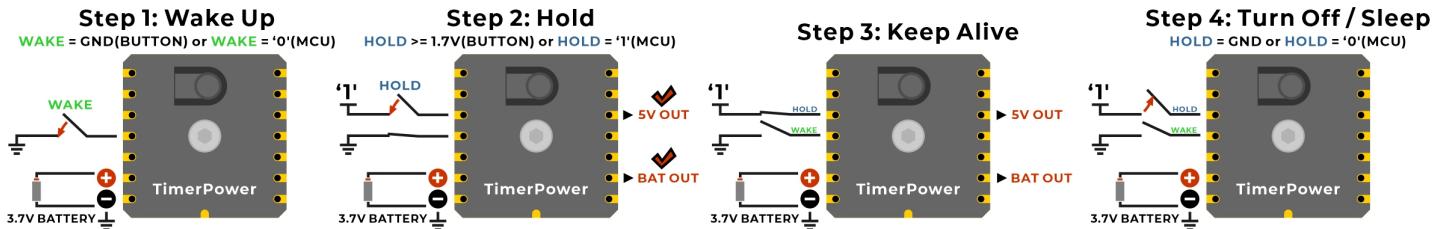
UIFlow

- [UIFlow Example](#)

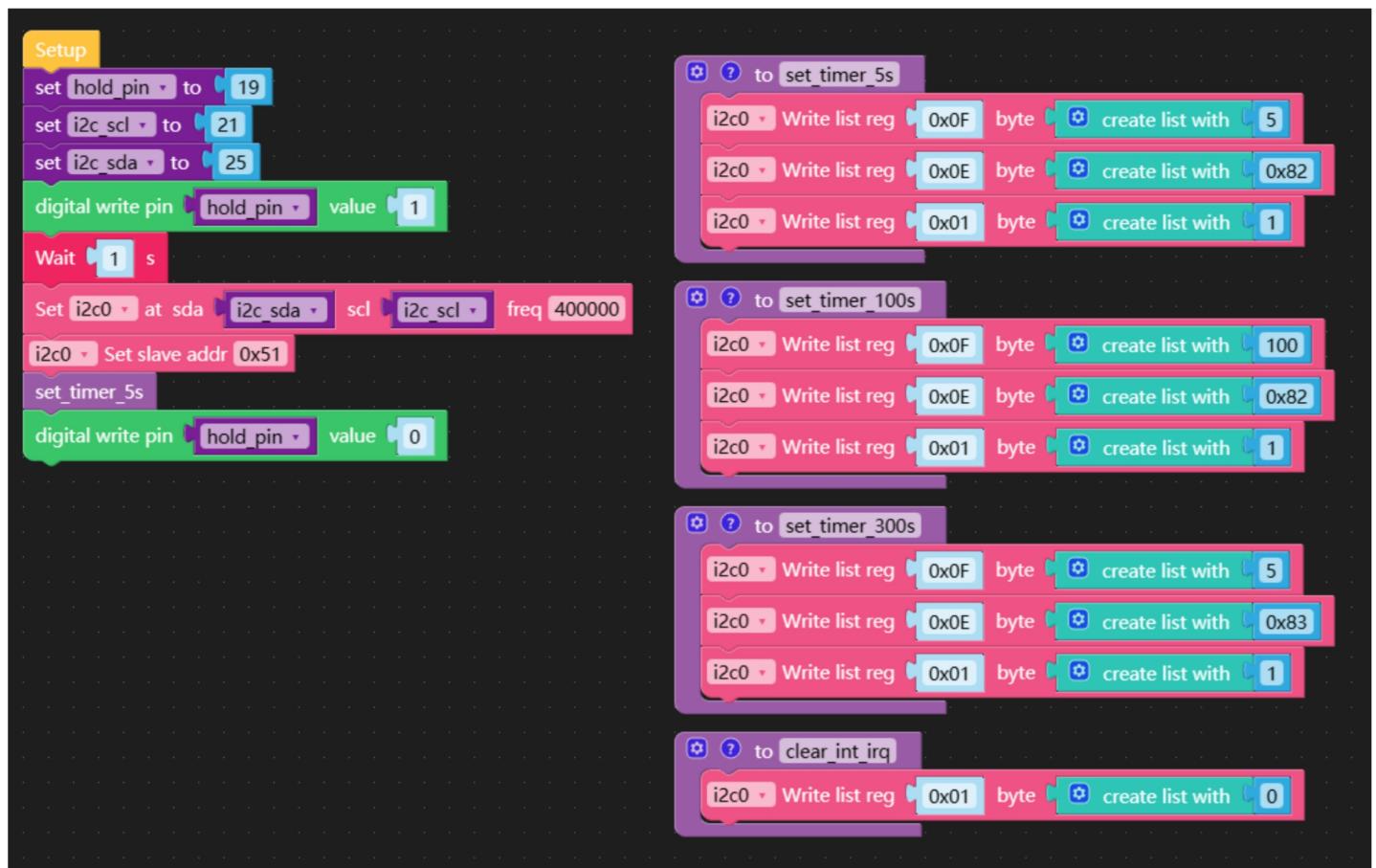
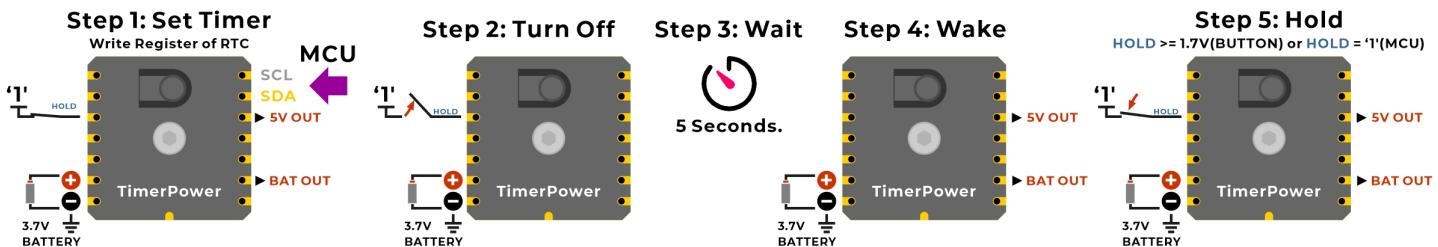




How To Use?



How To Wake Up in a setting time?



UIFlow Blocks

- Get RTC value



- Get timer value



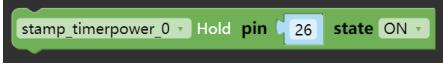
- Check alarm flag



- Check timer flag



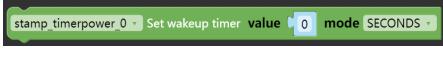
- Set hold pin and state



- Set wakeup pin and output



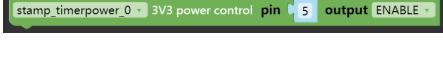
- Set wakeup timer



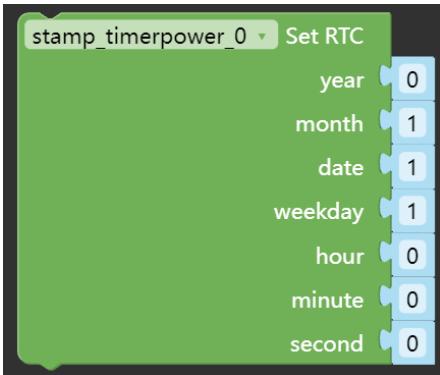
- Disable timer IRQ output



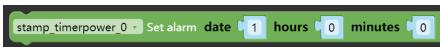
- 3V3 power control



- Set RTC



- Set alarm



- Turn off alarm



- Disable alarm



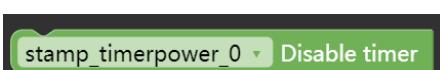
- Set timer



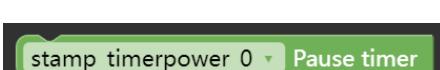
- Turn off timer



- Disable timer



- Pause timer



- o Resume timer



- o Init

