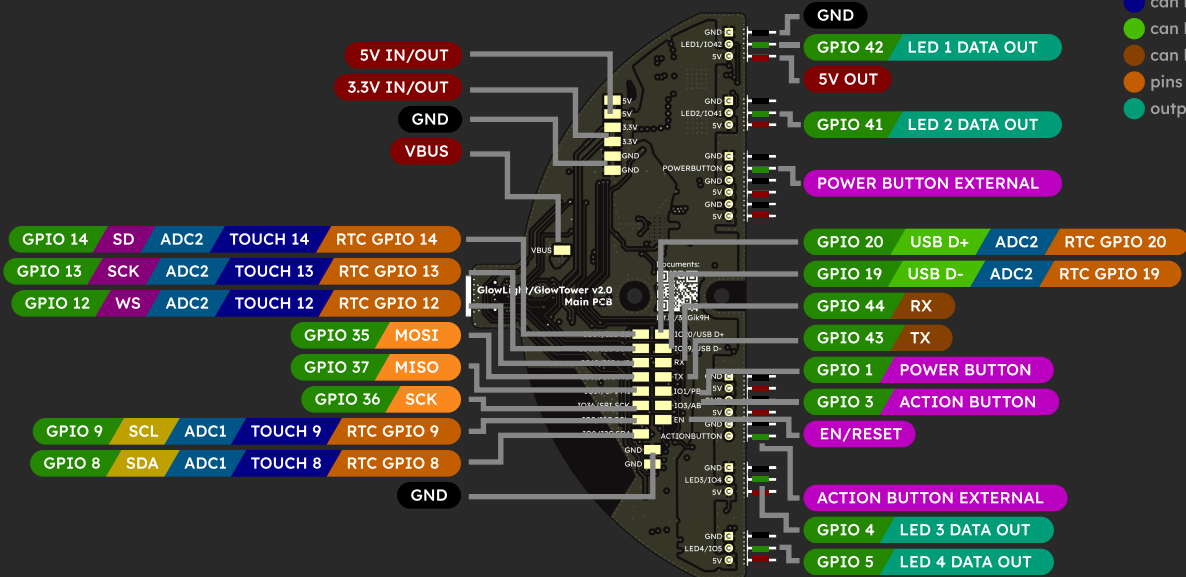GlowLight/GlowTower
Main PCB
v2.0

Pinout

- 🟠 recommended for SPI **
- 🟡 recommended for I2C **
- 🟣 recommended for I2S **
- 🔵 can be used for analog input signals
- 🔵 can be used for touch inputs
- 🟢 can be used for USB Serial, USB OTG, JTAG
- 🟤 can be used for UART
- 🟠 pins remain usable in deep sleep
- 🟢 outputs 5V data signal

5V IN/OUT

3.3V IN/OUT

GND

VBUS

GND
LED1/IO42
5V
5V
5V
3.3V
3.3V
GND
GND
POWERBUTTON
GND
5V
GND
5V

LED2/IO41
5V

VBUS

Documents:

GlowLight/GlowTower v2.0
Main PCB

Gik9H

IO 0/USB D+
IO 9, USB D-
RX
TX
IO1/PB
IO3A/SRT SCK
IO3/AB
EN
ACTIONBUTTON
GND
GND
LED3/IO4
5V
GND
LED4/IO5
5V

GND			
GPIO 42	LED 1 DATA OUT		
5V OUT			
GPIO 41	LED 2 DATA OUT		
POWER BUTTON EXTERNAL			
GPIO 20	USB D+	ADC2	RTC GPIO 20
GPIO 19	USB D-	ADC2	RTC GPIO 19
GPIO 44	RX		
GPIO 43	TX		
GPIO 1	POWER BUTTON		
GPIO 3	ACTION BUTTON		
EN/RESET			
ACTION BUTTON EXTERNAL			
GPIO 4	LED 3 DATA OUT		
GPIO 5	LED 4 DATA OUT		

GPIO 14	SD	ADC2	TOUCH 14	RTC GPIO 14
GPIO 13	SCK	ADC2	TOUCH 13	RTC GPIO 13
GPIO 12	WS	ADC2	TOUCH 12	RTC GPIO 12
GPIO 35	MOSI			
GPIO 37	MISO			
GPIO 36	SCK			
GPIO 9	SCL	ADC1	TOUCH 9	RTC GPIO 9
GPIO 8	SDA	ADC1	TOUCH 8	RTC GPIO 8
GND				

| **GPIO 1** | POWER BUTTON *** |
| **GPIO 3** | ACTION BUTTON *** |

`Press`
- 🔌 Standby Mode *

`Press` `Press`
- 📶 Turn off/on WiFi

`Press`
- ▶ Next LED preset

`Press` `Hold`
- ✨ Change brightness
  While holding the button, the brightness first decreases and once the minimum is reached, it increases again.

* 🔌 To turn on again, press the **POWER BUTTON** once.
** Every GPIO pin can be used for: I2C, SPI, I2S
*** Pull to GND, to trigger button (For your code, keep in mind: LOW signal will be inverted to HIGH on pcb)

Button presets require GlowOS 0.15 or newer installed on GlowLight/GlowTower Main PCB.

glowlight.glowingkitty.com
glowtower.glowingkitty.com

open source hardware

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