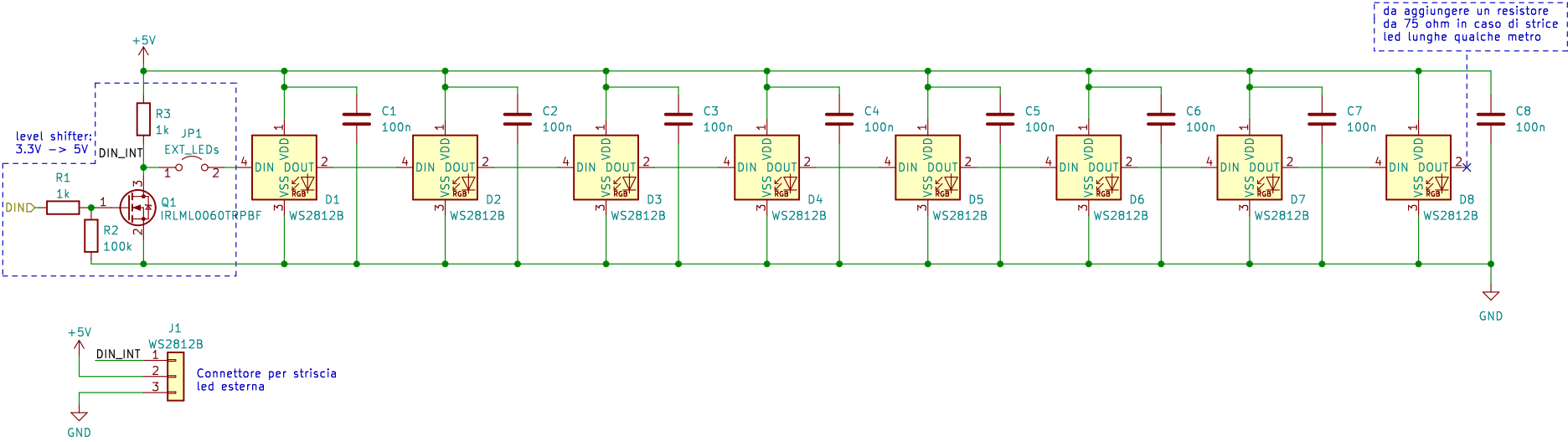


Id: 1/6

8X WS2812B RGB LEDS

Per ogni IC LED va posto un condensatore di filtro da 100nF
VDD +3V7 - 5V3



Ilaria Zamai Alessandro Speranza Edoardo Nicolodi Filippo Castellan		
Sheet: /Led_RGB_WS2812B/ File: Led_RGB_WS2812B.kicad_sch		
Title: Scheda PSE RP2040		
Size: A4	Date: 2023-04-04	Rev: 1.0
KiCad E.D.A. kicad (6.0.8)		Id: 2/6

Circuito principale RP2040

EEPROM

Debug

Crystal

Flash

Ilaria Zamai
Alessandro Speranza
Edoardo Nicolodi
Filippo Castellan

Sheet: /RP2040/
File: rp2040.kicad_sch

Title: Scheda PSE RP2040

Size: A4	Date: 2023-04-04	Rev: 1.0
KiCad E.D.A. kicad (6.0.8)		Id: 5/6

Diagram of J2 connector pin connections:

- Pin 1: SWCLK
- Pin 2: SWDIO
- Pin 3: GND

Ilaria Zamai
Alessandro Speranza
Edoardo Nicolodi
Filippo Castellan

Sheet: /RP2040/
File: rp2040.kicad_sch

Title: Scheda PSE RP2040

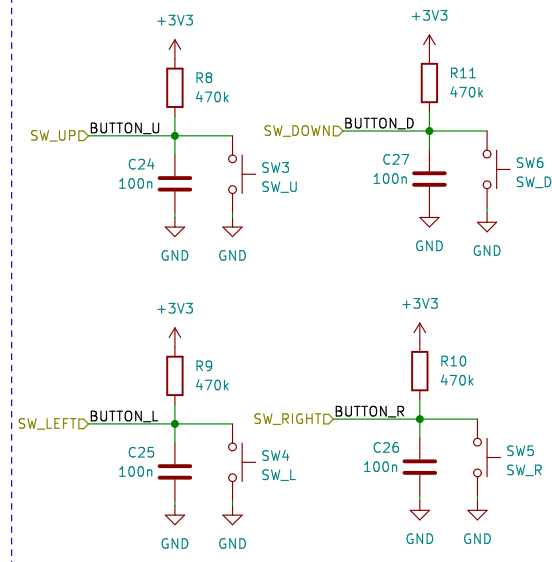
Size: A4 Date: 2023-04-04

Size: 100	Unit: 100
KiCad E.D.A.	kicad (6.0.8)

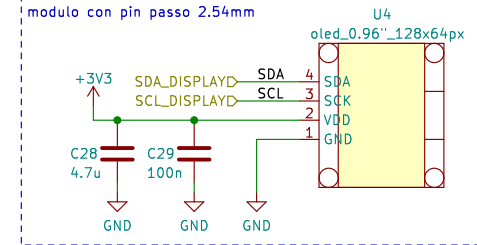
Rev: 1.0

Id: 5/6

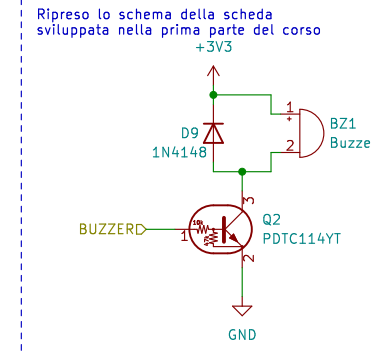
Pulsanti display



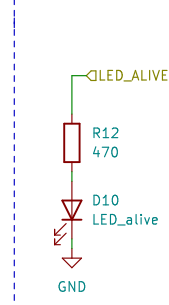
Display



Buzzer



LED_alive



Ilaria Zamai
Alessandro Speranza
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Filippo Castellan

Sheet: /Interfaccia utente/
File: Interfaccia_utente.kicad_sch

Title: Scheda PSE RP2040

Size: A4 Date: 2023-04-04
KiCad E.D.A. kicad (6.0.8)

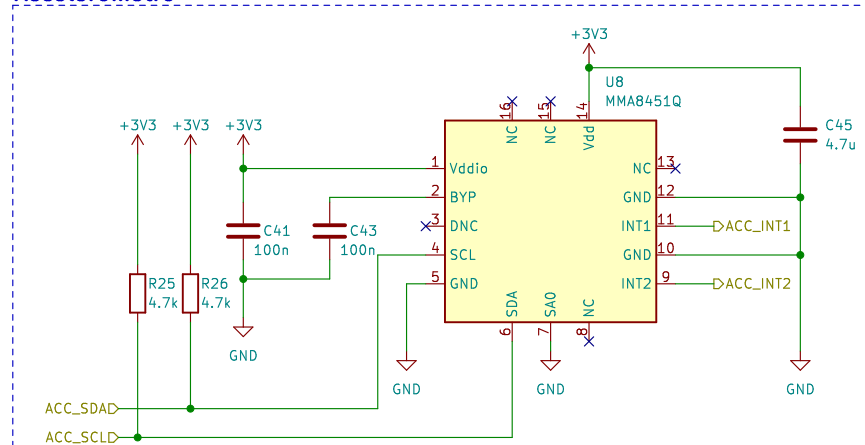
Rev: 1.0
Id: 5/6

[illegible]

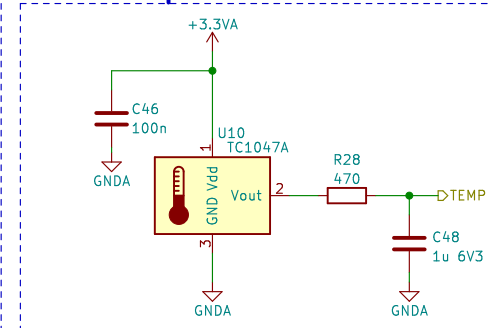
The schematic diagram illustrates a power supply circuit for a Raspberry Pi 4. The input is a 5V source (J3) connected to a 2016L05MR fuse (F1) and a 1A trip. The circuit then passes through a TVS diode (D11) and a PPTC (D12) to a +12V rail. This rail is connected to a buck converter (U6, TPS563201) which outputs 5V (VOUT_5V). The 5V rail is also connected to a 5V button (SW7) and a 5V LED (D18). The 5V output is connected to a Raspberry Pi 4 (J5).

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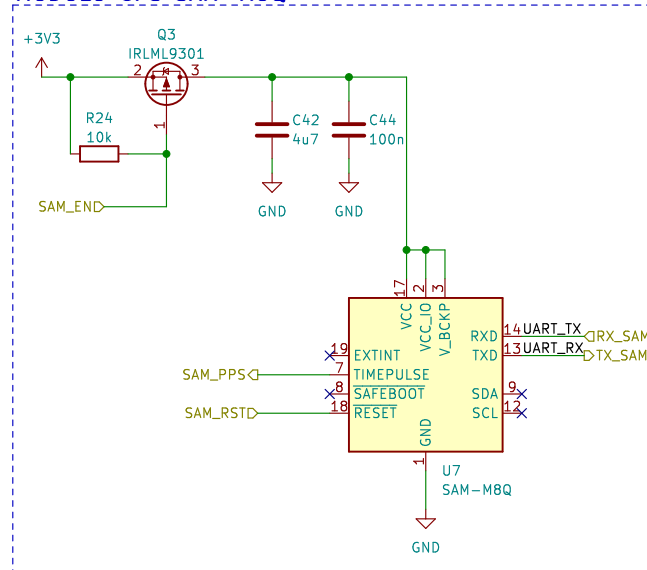
Accelerometro



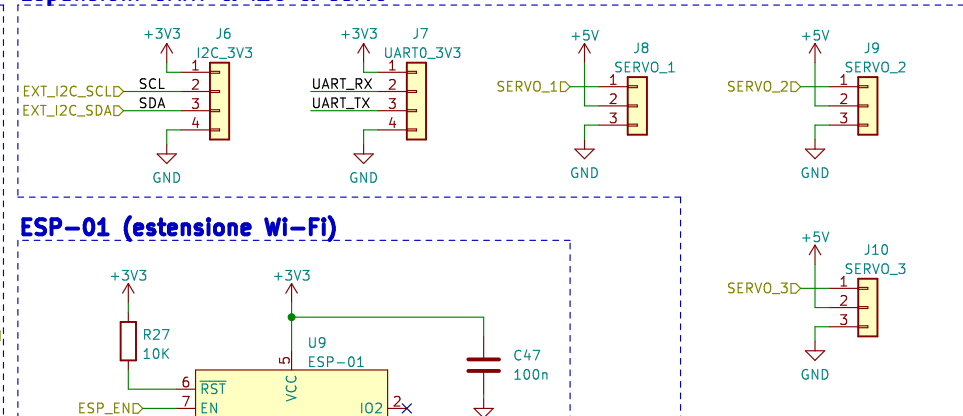
Sensore temperatura



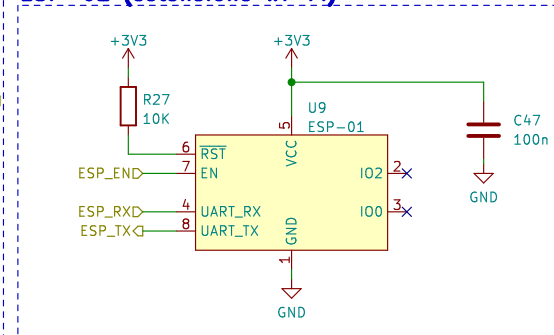
MODULO GPS SAM-M8Q



Espansioni UART & I2C & servo



ESP-01 (estensione Wi-Fi)



Ilaria Zamai
Alessandro Speranza
Edoardo Nicolodi
Filippo Castellan

Sheet: /Sensori/
File: sensori.kicad_sch

Title: Scheda PSE RP2040

Size: A4 Date: 2023-04-04
KiCad E.D.A. kicad (6.0.8)

Rev: 1.0
Id: 6/6