

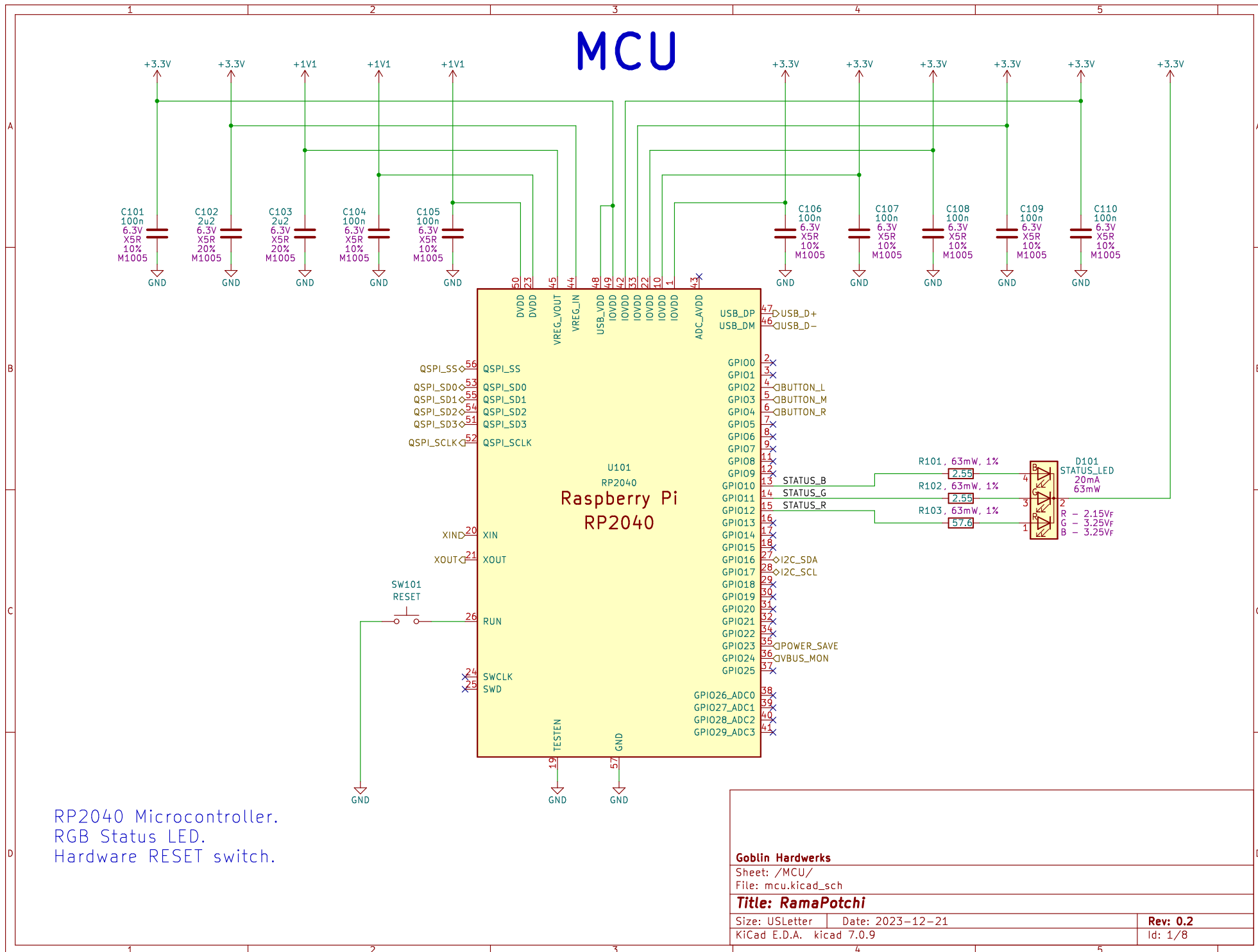
Goblin Hardwerks

Sheet: /
File: RamaPotchi.kicad_sch

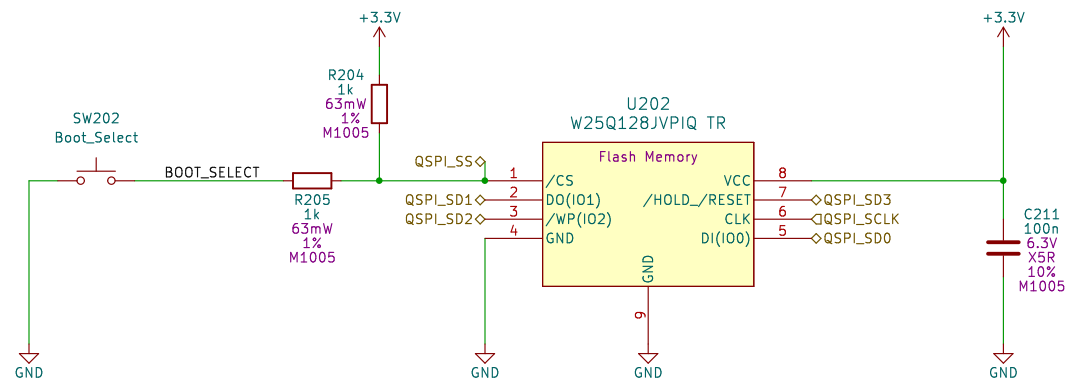
Title: RamaPotchi

Size: USLetter Date: 2023-12-21
KiCad E.D.A. kicad 7.0.9

Rev: 0.2
Id: 0/8



Flash and Boot Select



Quad-SPI Flash memory for MicroPython code storage.
Boot Select switch: Hold during power on to enter
USB Mass Storage mode. Allows the user to transfer
Micro Python code to the device.

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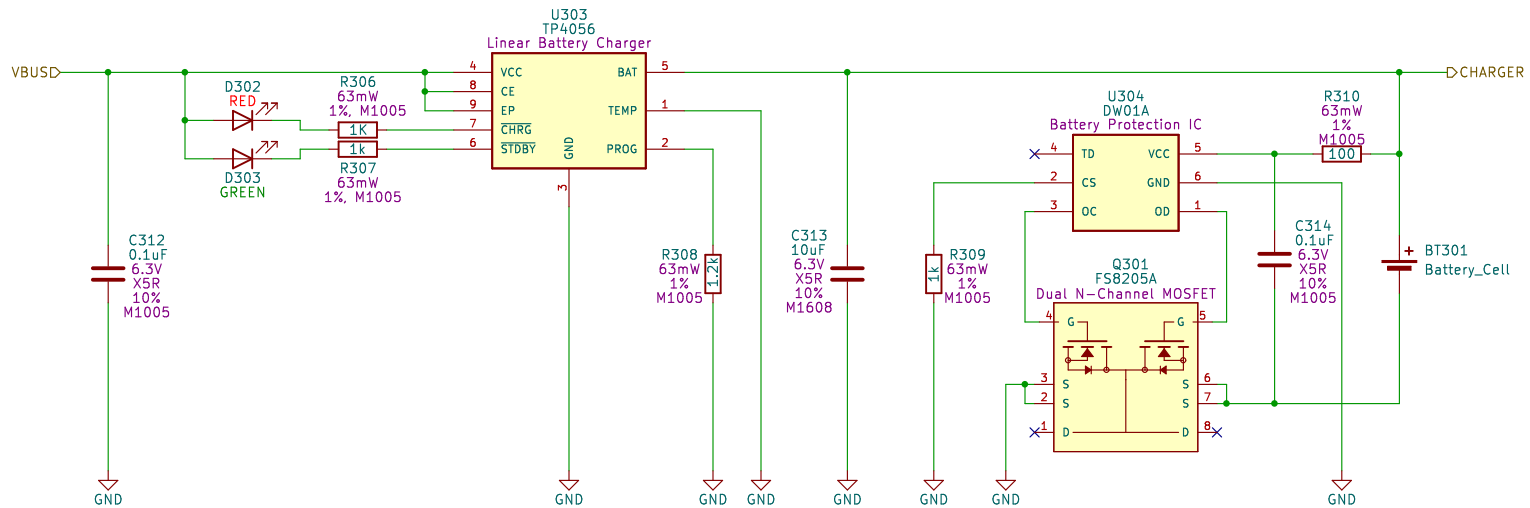
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File: flash_and_boot_select.kicad_sch

Title: RamaPotchi

Size: USLetter | Date: 2023-12-21
KiCad E.D.A. kicad 7.0.9

Rev: 0.2
Id: 2/8

Battery Charger



TP4056 Linear Lithium-Ion Battery Charging IC.
 DW01A Over Charge, Over Discharge, and Over Current protection IC.
 FS8205A Dual N-Channel MOSFET.
 Manages the safe charging and discharging of the attached Lithium battery. Includes a Red charging indicator LED, and a Green standby indicator LED.

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Sheet: /Battery Charger/
 File: battery_charger.kicad_sch

Title: RamaPotchi

Size: USLetter Date: 2023-12-21
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Rev: 0.2
 Id: 3/8

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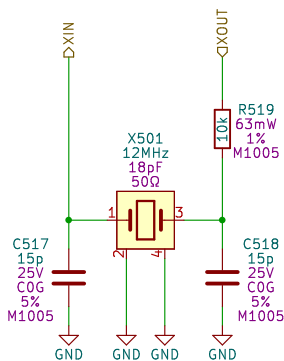


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Rev: 0.2
Id: 4/8

Crystal



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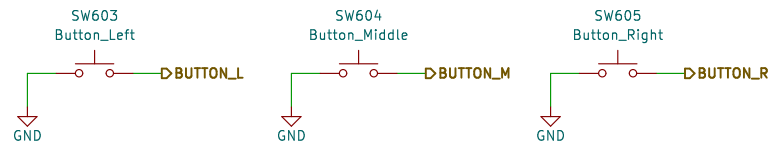
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Title: RamaPotchi

Size: USLetter Date: 2023-12-21
KiCad E.D.A. kicad 7.0.9

Rev: 0.2
Id: 5/8

User Input



3 momentary switches for user input. Labelled by relative position: Left, Middle, and Right.

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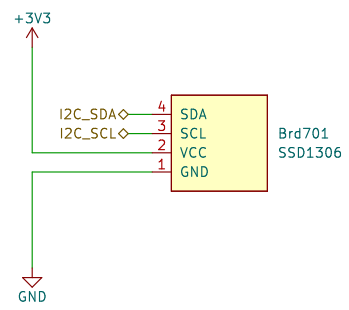
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Title: RamaPotchi

Size: USLetter Date: 2023-12-21
KiCad E.D.A. kicad 7.0.9

Rev: 0.2
Id: 6/8

Screen



0.96" 128x64 resolution monochrome OLED display, driven by a SSD1306 IC. I2C interface. 3.3V power.

Goblin Hardwerks			
Sheet: /Screen/			
File: screen.kicad_sch			
Title: RamaPotchi			
Size: USLetter		Date: 2023-12-21	Rev: 0.2
KiCad E.D.A. kicad 7.0.9			Id: 7/8