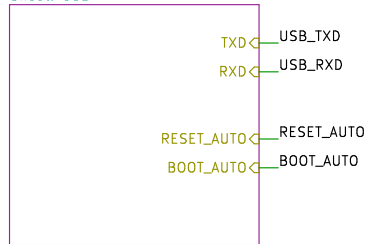


Sheet: Power input



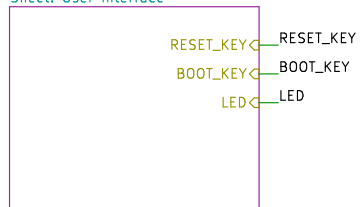
File: power-input.sch

Sheet: USB



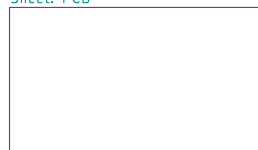
File: USB.sch

Sheet: User Interface



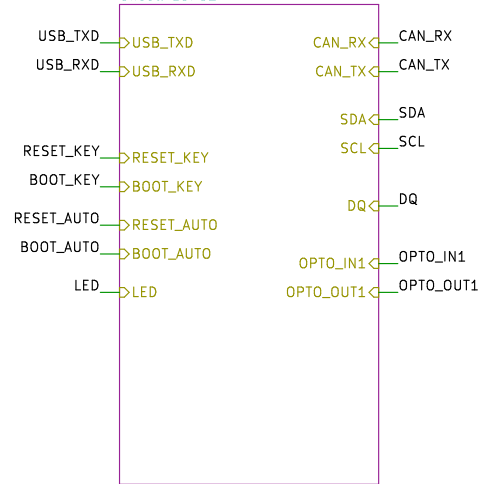
File: UI.sch

Sheet: PCB



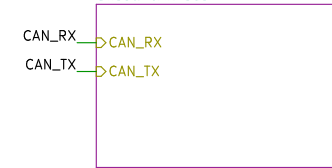
File: PCB.sch

Sheet: ESP32



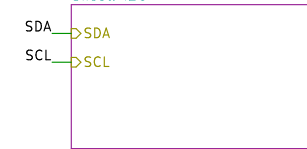
File: ESP32.sch

Sheet: CAN bus



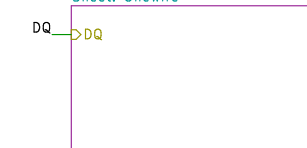
File: canbus.sch

Sheet: I2C



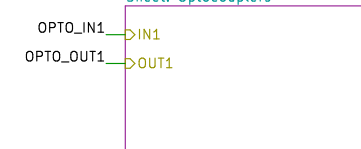
File: I2C.sch

Sheet: Onewire



File: onewire.sch

Sheet: Optocouplers



File: optocouplers.sch

SH-ESP32 is licensed under CC BY-SA 4.0.
 To view a copy of this license, visit
<https://creativecommons.org/licenses/by-sa/4.0>

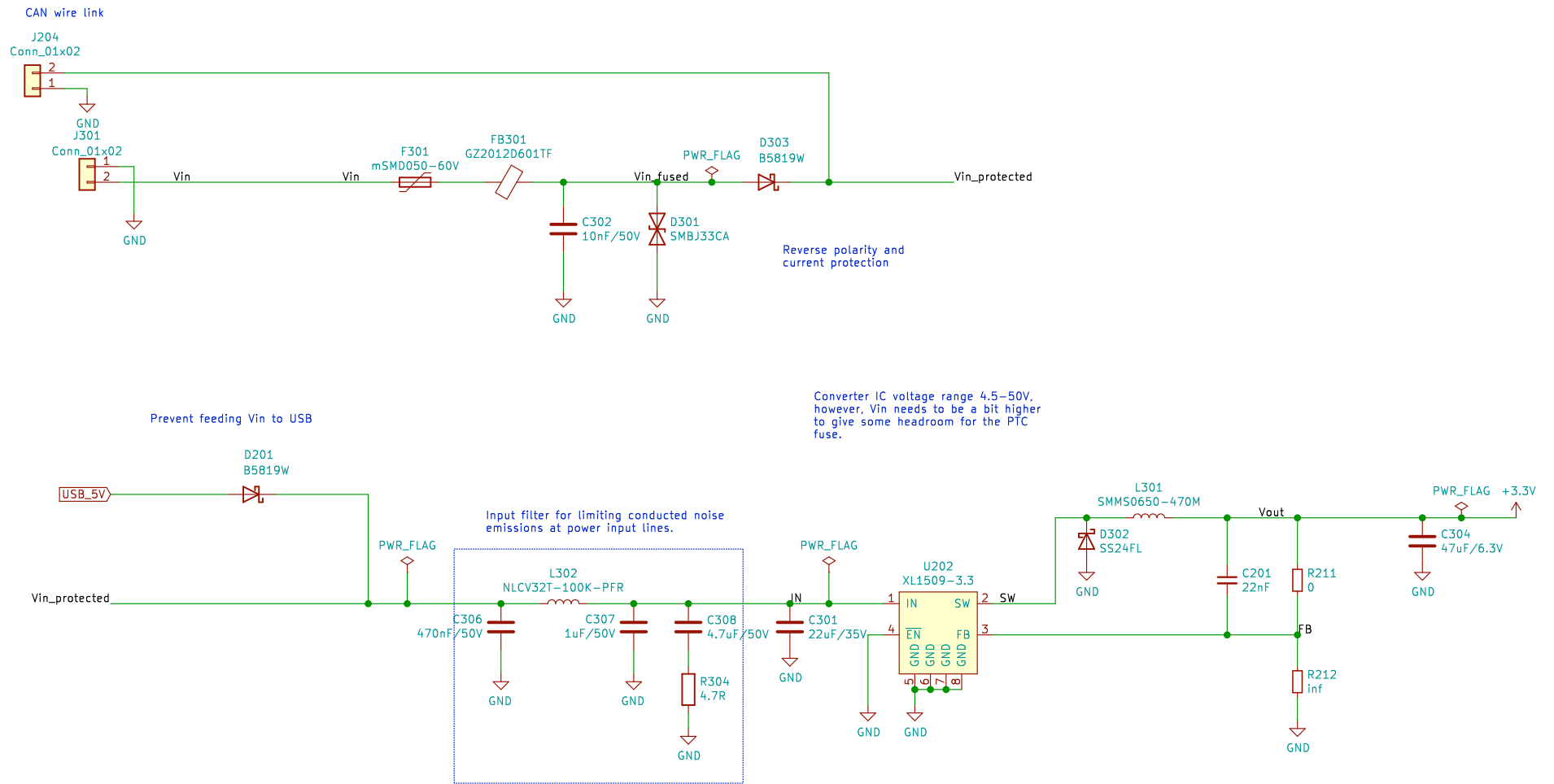
Hot Labs Ltd

Sheet: /
 File: SH-ESP32.sch

Title: Sailor Hat with ESP32

Size: A4 Date: 2021-08-17
 KiCad E.D.A. kicad (5.1.10-0-10_14)

Rev: 2.0.0
 Id: 1/10



SH-ESP32 is licensed under CC BY-SA 4.0.
To view a copy of this license, visit
<https://creativecommons.org/licenses/by-sa/4.0>

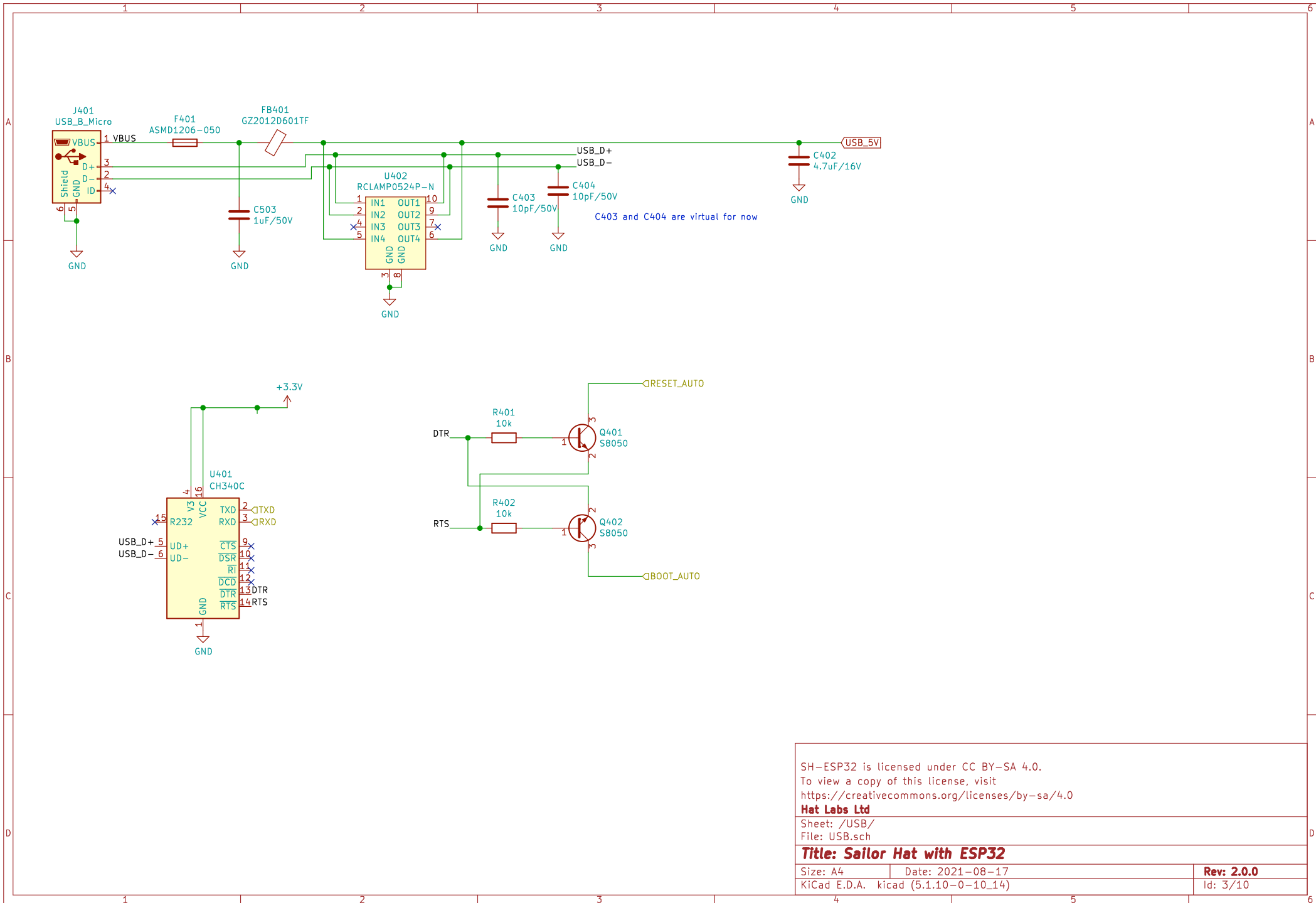
Hot Labs Ltd

Sheet: /Power input/
File: power-input.sch

Title: Sailor Hat with ESP32

Size: A4 Date: 2021-08-17
KiCad E.D.A. kicad (5.1.10-0-10_14)

Rev: 2.0.0
Id: 2/10



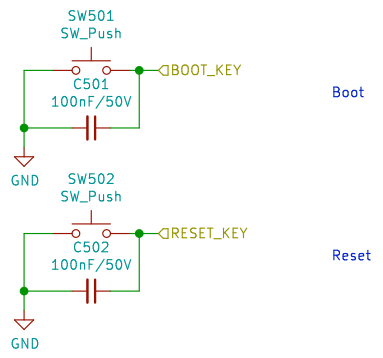
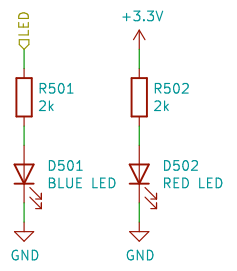
SH-ESP32 is licensed under CC BY-SA 4.0.
 To view a copy of this license, visit
<https://creativecommons.org/licenses/by-sa/4.0>

Hot Labs Ltd

Sheet: /USB/
 File: USB.sch

Title: Sailor Hat with ESP32

Size: A4	Date: 2021-08-17	Rev: 2.0.0
KiCad E.D.A. kicad (5.1.10-0-10_14)		Id: 3/10



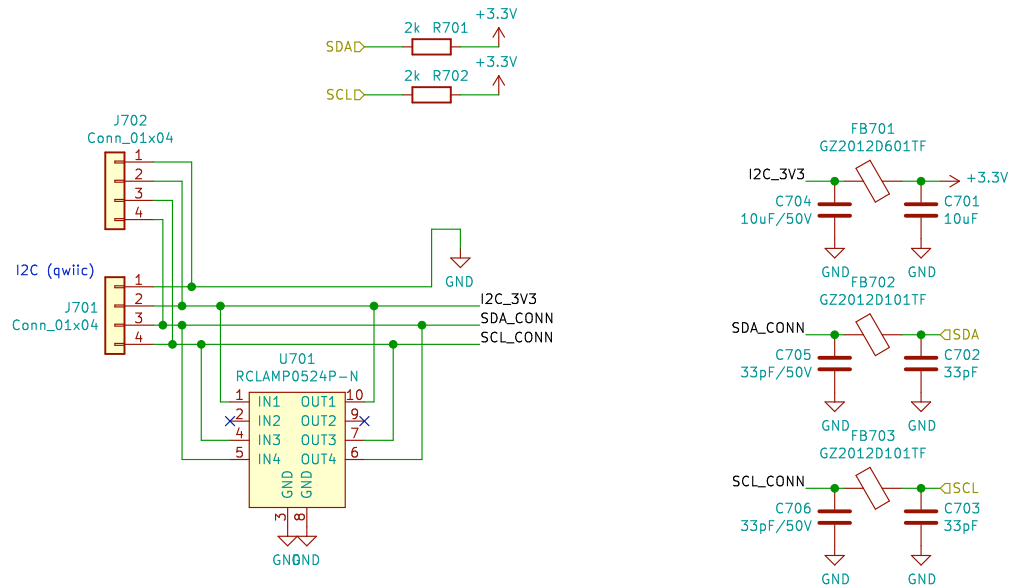
SH-ESP32 is licensed under CC BY-SA 4.0.
 To view a copy of this license, visit
<https://creativecommons.org/licenses/by-sa/4.0>

Hot Labs Ltd

Sheet: /User Interface/
 File: UI.sch

Title: Sailor Hat with ESP32

Size: A4	Date: 2021-08-17	Rev: 2.0.0
KiCad E.D.A. kicad (5.1.10-0-10_14)		Id: 4/10



SH-ESP32 is licensed under CC BY-SA 4.0.
 To view a copy of this license, visit
<https://creativecommons.org/licenses/by-sa/4.0>

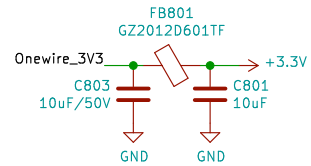
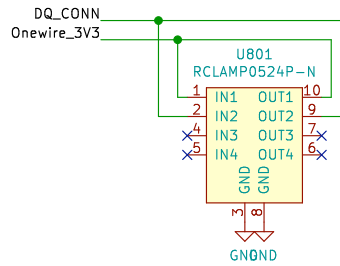
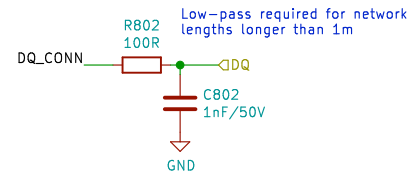
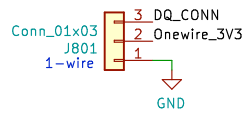
Hot Labs Ltd

Sheet: /I2C/
 File: I2C.sch

Title: Sailor Hat with ESP32

Size: A4 Date: 2021-08-17
 KiCad E.D.A. kicad (5.1.10-0-10_14)

Rev: 2.0.0
 Id: 6/10



SH-ESP32 is licensed under CC BY-SA 4.0.
To view a copy of this license, visit
<https://creativecommons.org/licenses/by-sa/4.0>

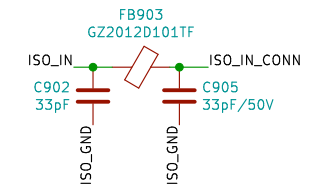
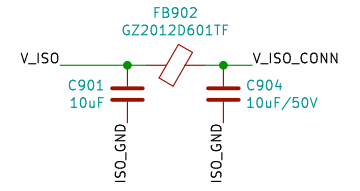
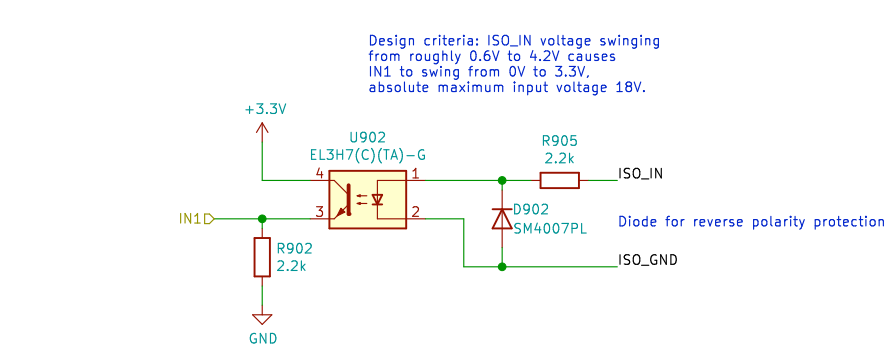
Hot Labs Ltd

Sheet: /Onewire/
File: onewire.sch

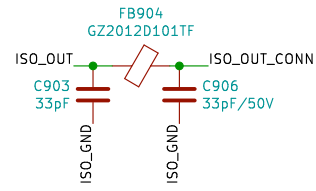
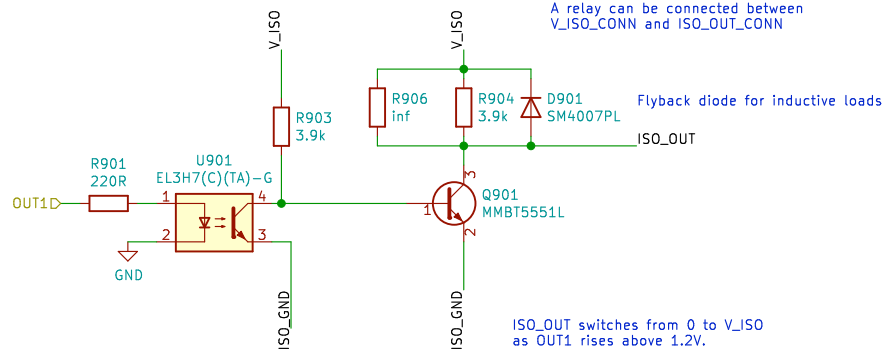
Title: Sailor Hat with ESP32

Size: A4 Date: 2021-08-17
KiCad E.D.A. kicad (5.1.10-0-10_14)

Rev: 2.0.0
Id: 7/10



R906 is an unpopulated pad to allow for adding a stronger pullup if needed.



SH-ESP32 is licensed under CC BY-SA 4.0.
 To view a copy of this license, visit
<https://creativecommons.org/licenses/by-sa/4.0>

Hat Labs Ltd

Sheet: /Optocouplers/
 File: optocouplers.sch

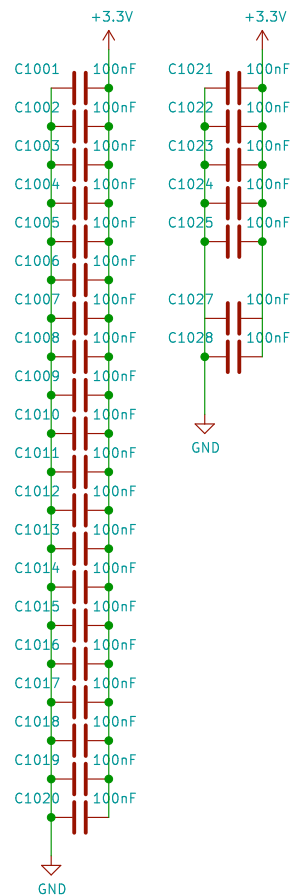
Title: Sailor Hat with ESP32

Size: A4	Date: 2021-08-17	Rev: 2.0.0
KiCad E.D.A. kicad (5.1.10-0-10_14)	Id: 8/10	

Mounting holes

- H1001 MountingHole
- H1002 MountingHole

Decoupling caps



SH-ESP32 is licensed under CC BY-SA 4.0.
To view a copy of this license, visit
<https://creativecommons.org/licenses/by-sa/4.0>

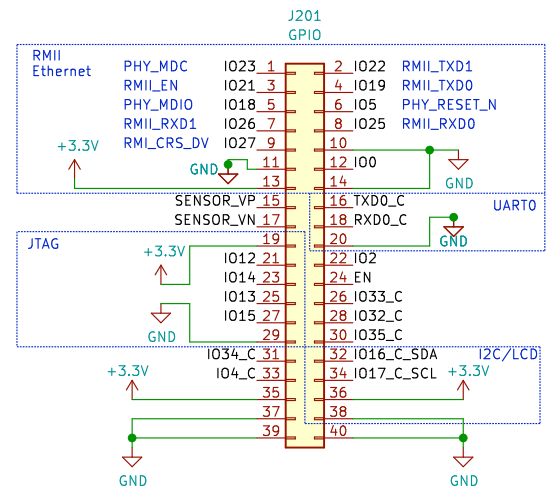
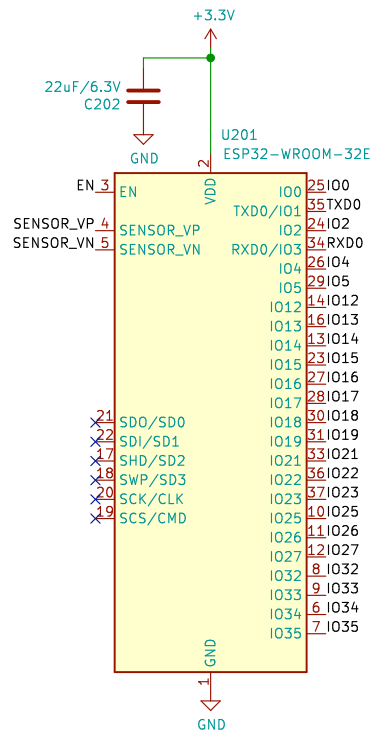
Hot Labs Ltd

Sheet: /PCB/
File: PCB.sch

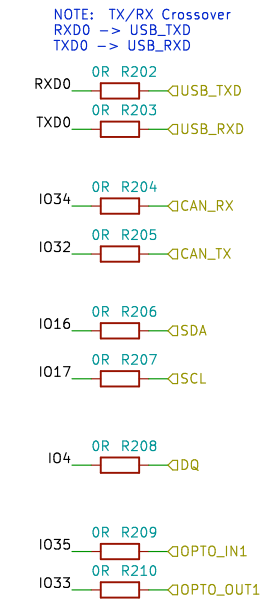
Title: Sailor Hat with ESP32

Size: A4 Date: 2021-08-17
KiCad E.D.A. kicad (5.1.10-0-10_14)

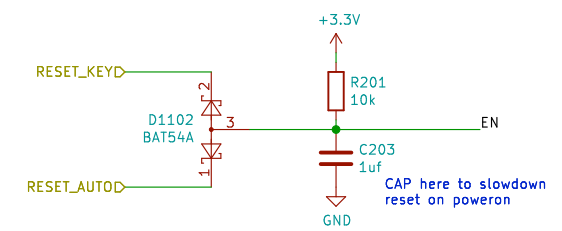
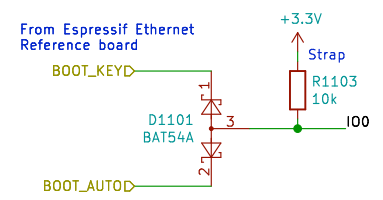
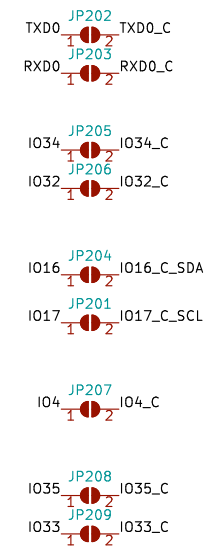
Rev: 2.0.0
Id: 9/10



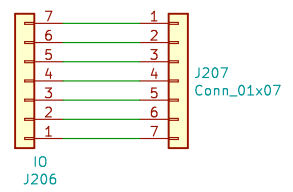
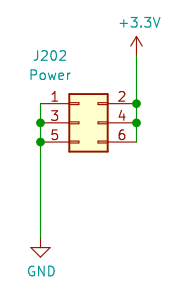
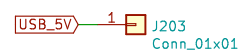
OR jumpers allow for rerouting and disabling peripherals



Solder jumpers allow for rerouting peripherals GPIOs to J201



For safety reasons, a USB 5V two-pin header was downgraded to a single pin test point.



SH-ESP32 is licensed under CC BY-SA 4.0.
To view a copy of this license, visit <https://creativecommons.org/licenses/by-sa/4.0>

Hot Labs Ltd

Sheet: /ESP32/
File: ESP32.sch

Title: Sailor Hat with ESP32

Size: A4	Date: 2021-08-17	Rev: 2.0.0
KiCad E.D.A. kicad (5.1.10-0-10_14)		Id: 10/10