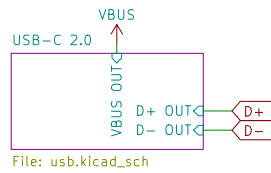
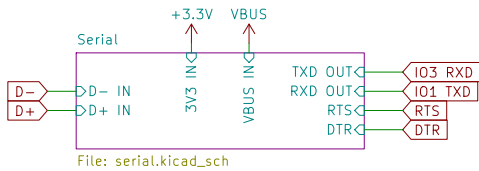


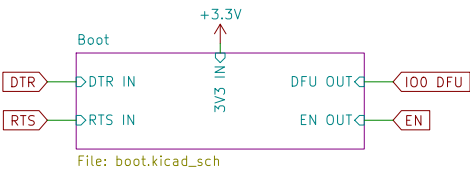
USB-C (2.0)



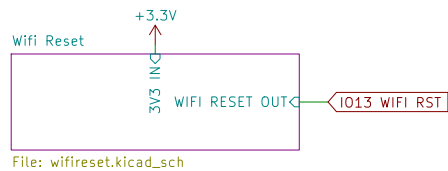
SERIAL



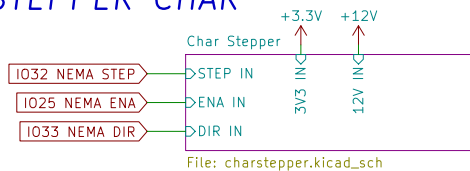
EN / BOOT



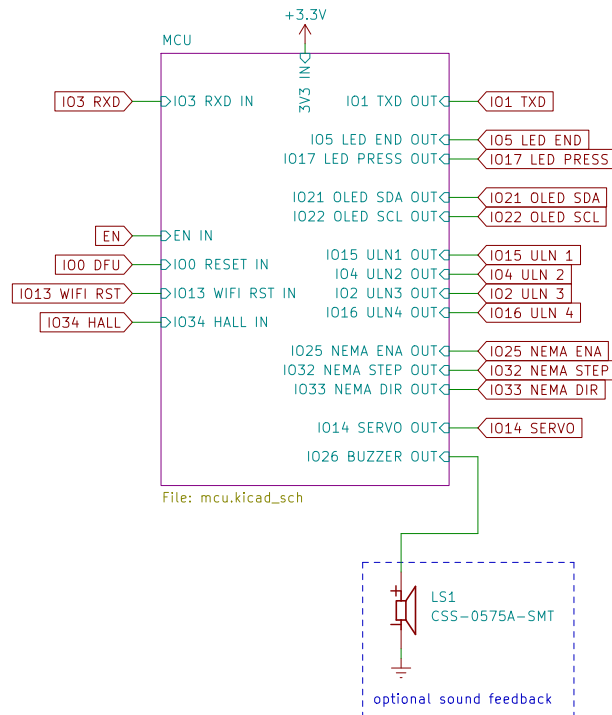
WIFI RESET



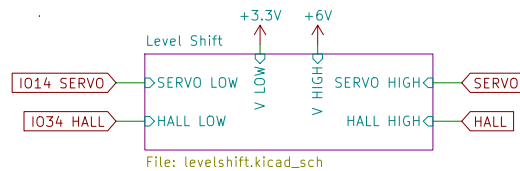
STEPPER CHAR



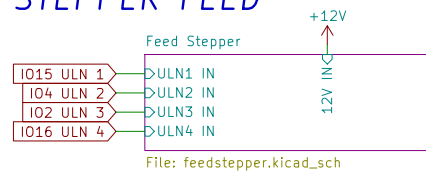
ESP32



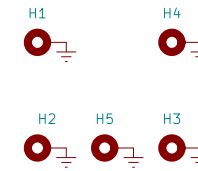
LEVEL SHIFT



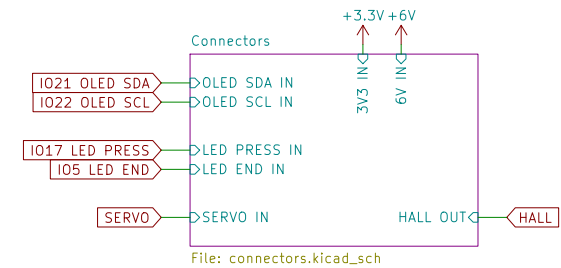
STEPPER FEED



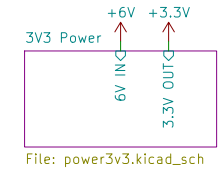
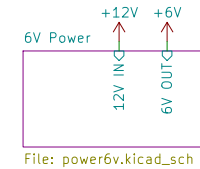
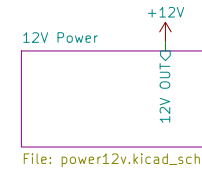
PADS



CONNECTORS



POWER



Andrei Speridiao

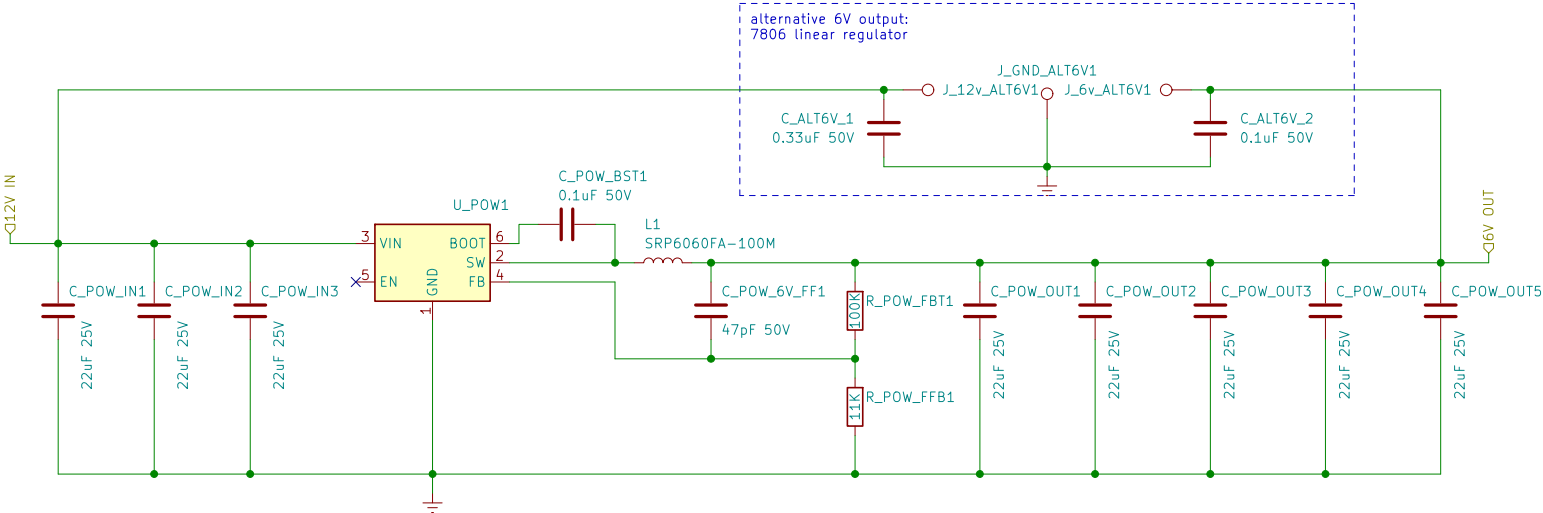
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File: e-tkt.kicad_sch

Title: E-TKT v1.0

Size: A4 Date: 2022-09-29
KiCad E.D.A. kicad (6.0.6)

Rev: 4
Id: 1/13

6V POWER BUCK CONVERTER



Sheet: /6V Power/
File: power6v.kicad_sch

File: power6v.kicad_sch

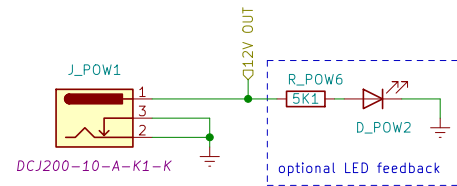
Title: E-TKT v1.0

Date: 2022-09-29

Rev: 4

Id: 2/13

12V POWER + LATCH SWITCH



Andrei Speridiao

Sheet: /12V Power/
File: power12v.kicad_sch

Title: E-TKT v1.0

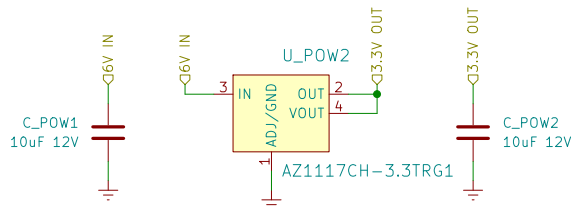
Size: A4 Date: 2022-09-29

KiCad E.D.A. kicad (6.0.6)

Rev: 4

Id: 3/13

3.3V POWER LINEAR REGULATOR



Andrei Speridiao		
Sheet: /3V3 Power/		
File: power3v3.kicad_sch		
Title: E-TKT v1.0		
Size: A4	Date: 2022-09-29	Rev: 4
KiCad E.D.A. kicad (6.0.6)		Id: 4/13

USB-C (2.0)

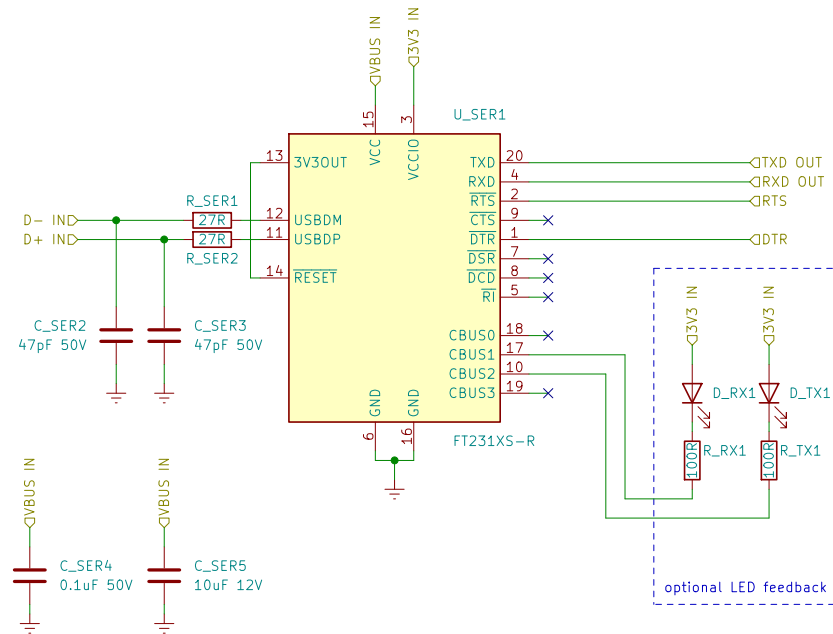
The schematic diagram illustrates a USB-C (2.0) port circuit. It features a central yellow component labeled J_USB1 (USB4105-GF-A). The left side of J_USB1 has pins CC1 (A5), DP1 (A6), DN1 (A7), SBU1 (A8), GND (B1/B12), and SHELL_GND (S1). The right side has pins VBUS (B4/B9), CC2 (B5), DP2 (B6), DN2 (B7), SBU2 (B8), and GND (B1/B12). A 5K1 resistor R_USB1 is connected between USBD1+ (A5) and ground. A 5K1 resistor R_USB2 is connected between USBD1- (A7) and ground. A 6V 750mA fuse F_USB1 is placed on the VBUS line. An LED D_USB1 is connected between VBUS and ground through a 2K resistor R_USB3. The output of the LED is labeled QVBUS OUT. The circuit also includes a USB6B1 connector and a USB4105-GF-A chip.

optional LED feedback

Andrei Speridiao		
Sheet: /USB-C 2.0/ File: usb.kicad_sch		
Title: E-TKT v1.0		
Size: A4	Date: 2022-09-29	Rev: 4
KiCad E.D.A. kicad (6.0.6)	Id: 5/13	

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SERIAL



Andrei Speridiao

Sheet: /Serial/

File: serial.kicad_sch

Title: E-TKT v1.0

Size: A4

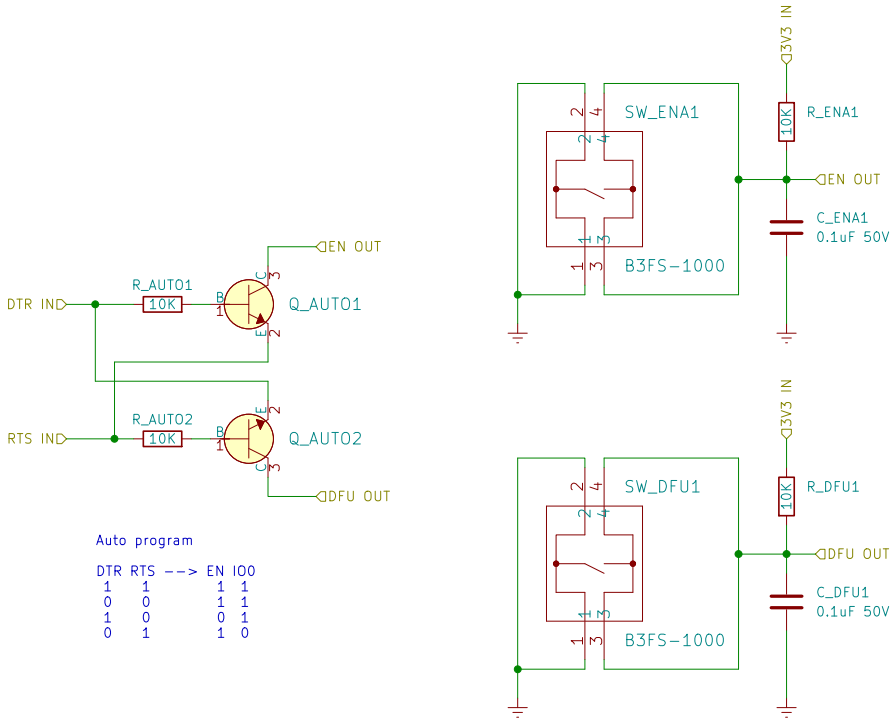
Date: 2022-09-29

Rev: 4

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EN / BOOT



Andrei Speridiao

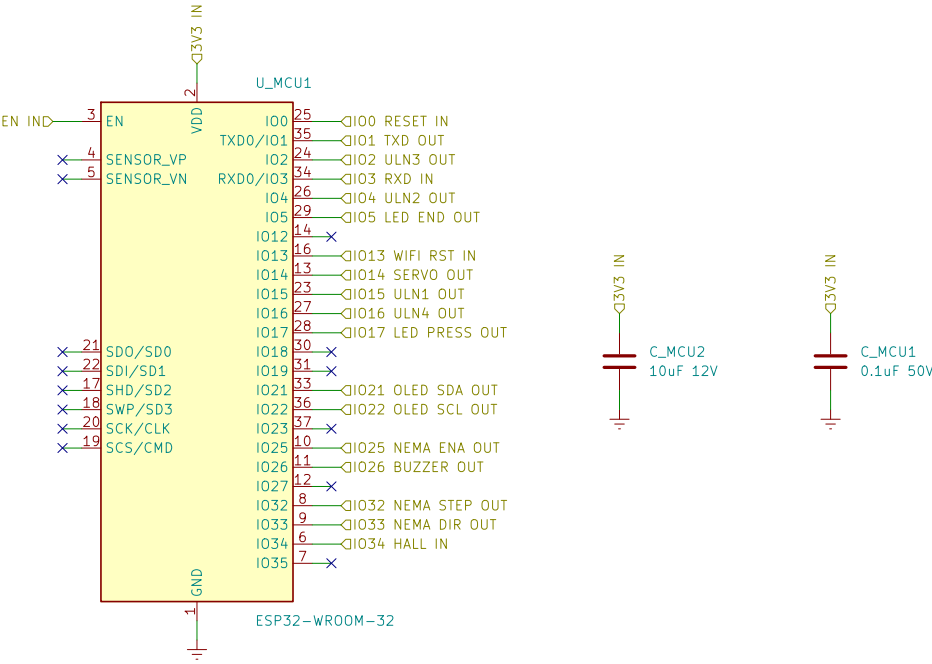
Sheet: /Boot/
File: boot.kicad_sch

Title: E-TKT v1.0

Size: A4 Date: 2022-09-29
KiCad E.D.A. kicad (6.0.6)

Rev: 4
Id: 7/13

ESP32



Andrei Speridiao

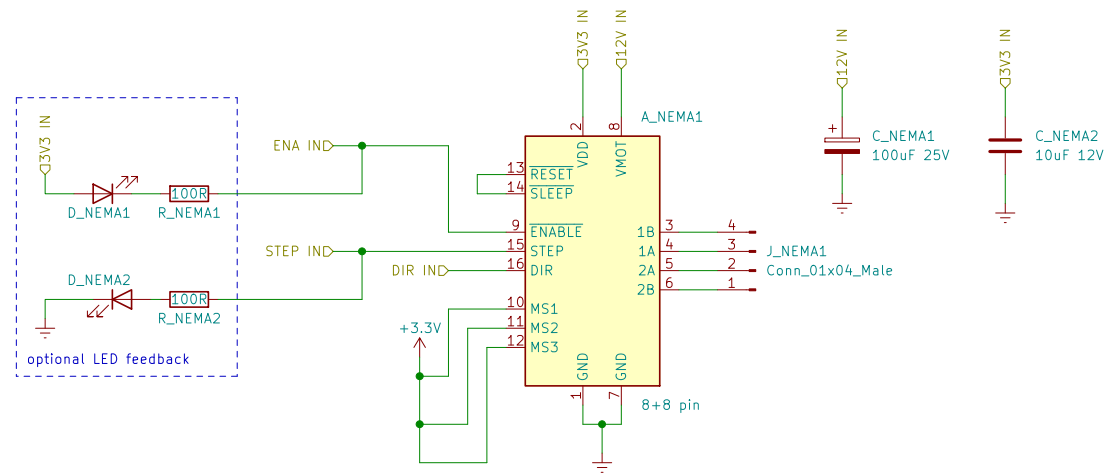
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File: mcu.kicad_sch

Title: E-TKT v1.0

Size: A4 Date: 2022-09-29
KiCad E.D.A. kicad (6.0.6)

Rev: 4
Id: 8/13

STEPPER CHAR



Andrei Speridiao

Sheet: /Char Stepper/
File: charstepper.kicad_sch

Title: E-TKT v1.0

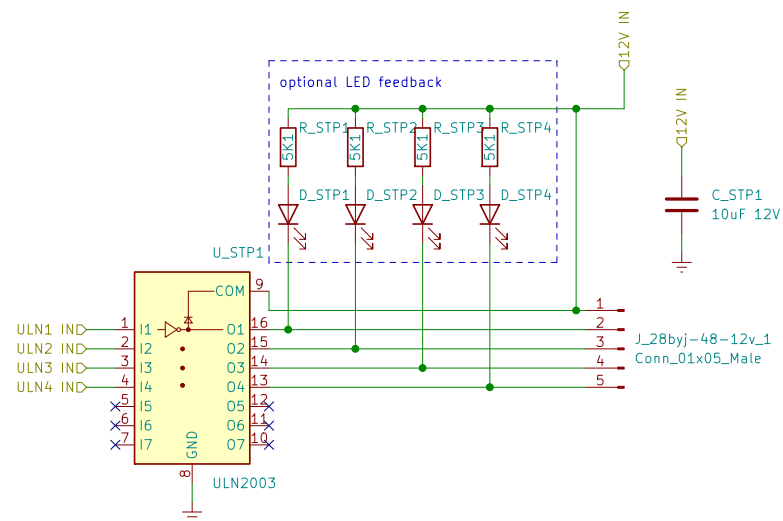
Size: A4 Date: 2022-09-29

KiCad E.D.A. kicad (6.0.6)

Rev: 4

Id: 9/13

STEPPER FEED



Andrei Speridiao

Sheet: /Feed Stepper/
File: feedstepper.kicad_sch

Title: E-TKT v1.0

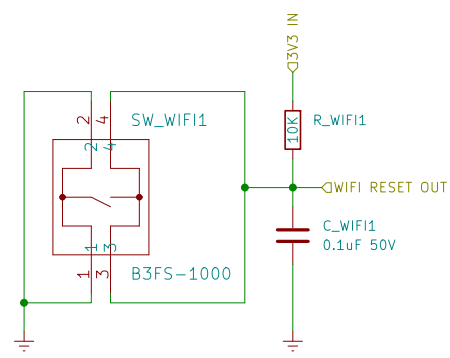
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KiCad E.D.A. kicad (6.0.6)

Rev: 4

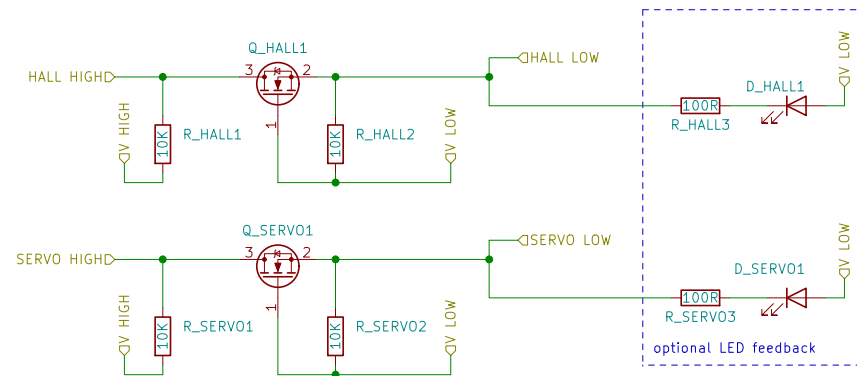
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WIFI RESET



Andrei Speridiao		
Sheet: /Wifi Reset/		
File: wifireset.kicad_sch		
Title: E-TKT v1.0		
Size: A4	Date: 2022-09-29	Rev: 4
KiCad E.D.A. kicad (6.0.6)		Id: 11/13

LEVEL SHIFT



Andrei Speridiao

Sheet: /Level Shift/

File: levelshift.kicad_sch

Title: E-TKT v1.0

Size: A4

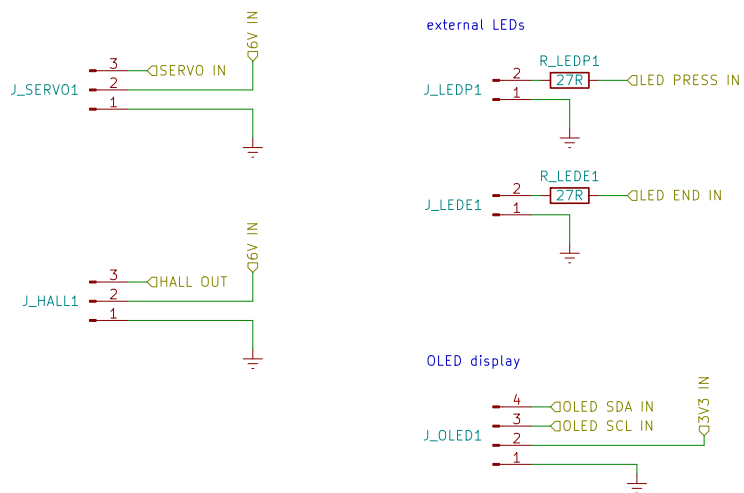
Date: 2022-09-29

Rev: 4

KiCad E.D.A. kicad (6.0.6)

Id: 12/13

CONNECTORS



Andrei Speridiao		
Sheet: /Connectors/		
File: connectors.kicad_sch		
Title: E-TKT v1.0		
Size: A4	Date: 2022-09-29	Rev: 4
KiCad E.D.A. kicad (6.0.6)		Id: 15/13