

power-section



File: power-section.kicad\_sch

display-output



File: display-output.kicad\_sch

uC-section



File: uC-section.kicad\_sch

sd-card



File: sd-card.kicad\_sch

rtc-module



File: rtc-module.kicad\_sch

miscellaneous



File: miscellaneous.kicad\_sch

MountingHole H6

MountingHole H7

MountingHole H8

MountingHole H5



MountingHole



MountingHole



H8 Mounting Hole



Sheet:

File: clock-control-board.kicad\_sch

**Title:**

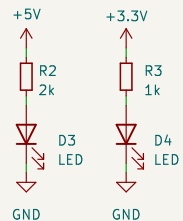
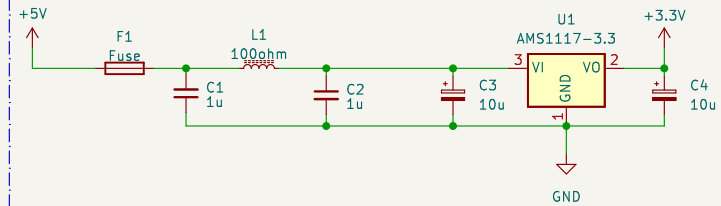
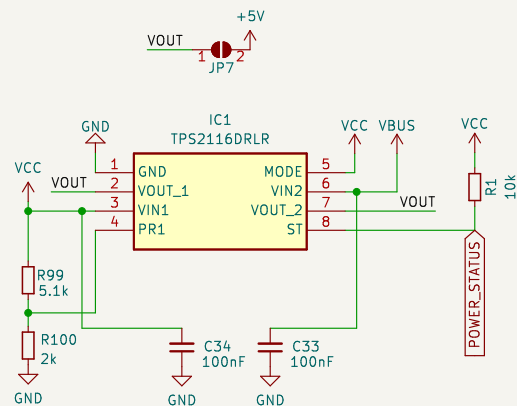
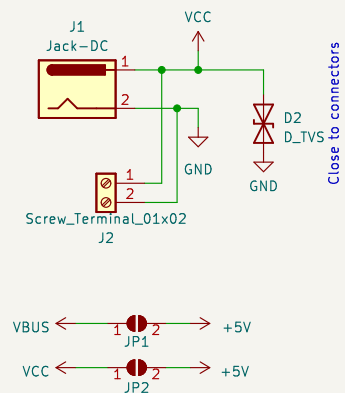
Size: A4

Date:

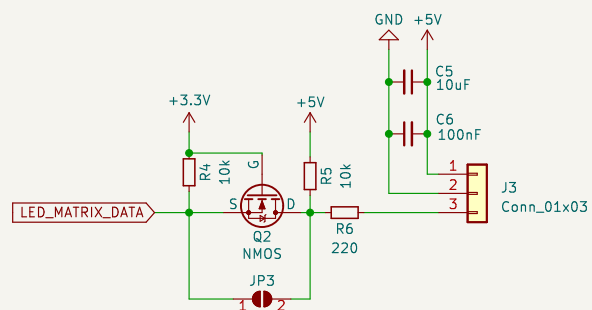
Size: A4	Date:
KiCad E.D.A. kicad (7.0.0)	

Rev:

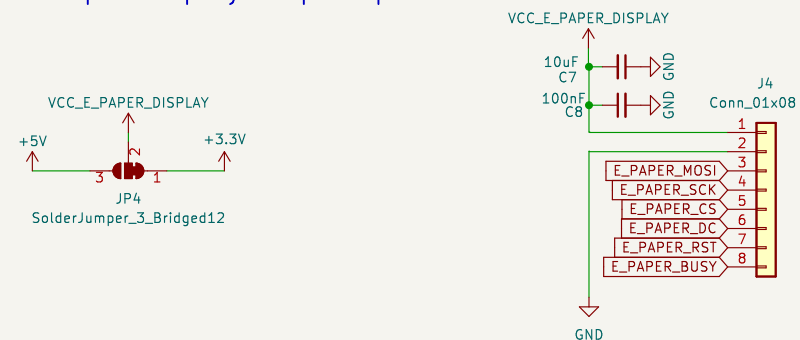
Id: 1/7



## LED Matrix display output



## E-Paper display output optional



Sheet:  
File: display-output.kicad\_sch

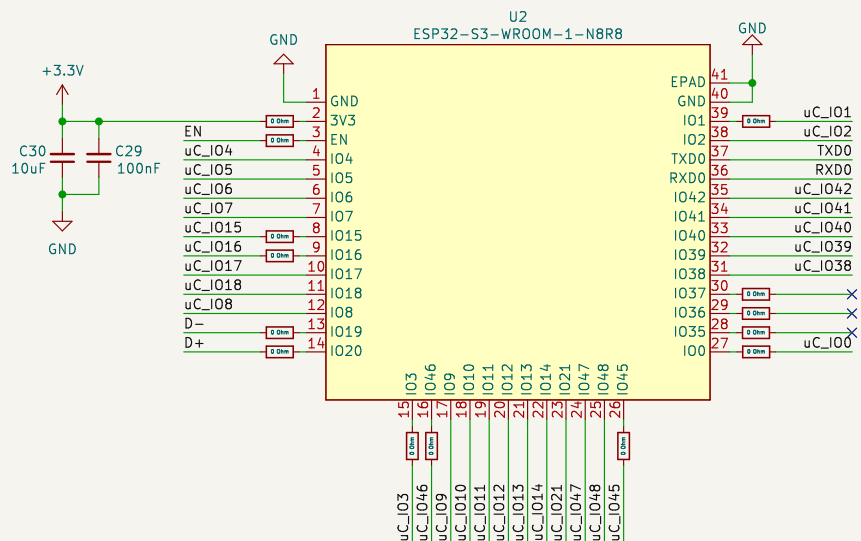
**Title:**

Size: A4  
KiCad E.D.A. kicad (7.0.0)

Date:

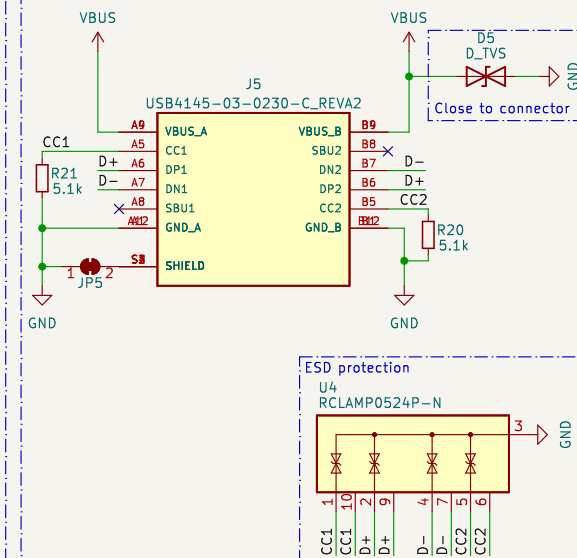
**Rev:**  
Id: 3/7

## ESP32-S3-WROOM-1-N8R8 Module

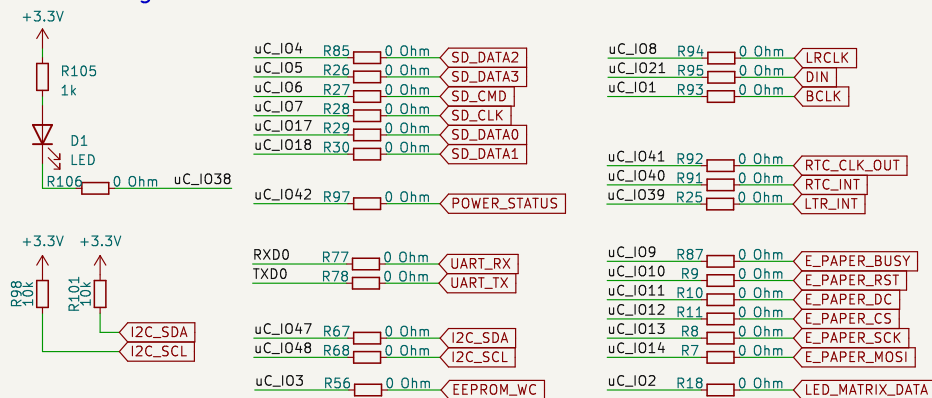


I/O35-37 are not used due to internally connected to QSPI PSRAM

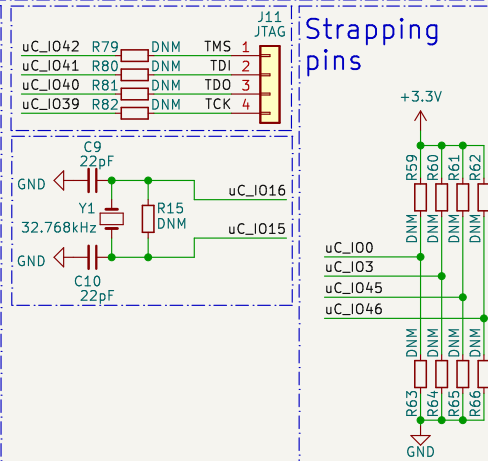
USB Type C input



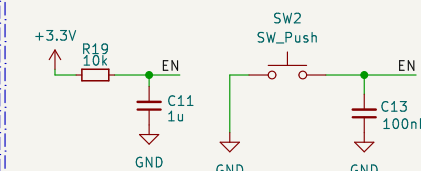
uController signals



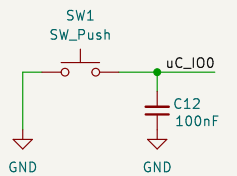
Strapping pins



Reset button



Boot / user button



Sheet:  
File: uC-section.kicad\_sch

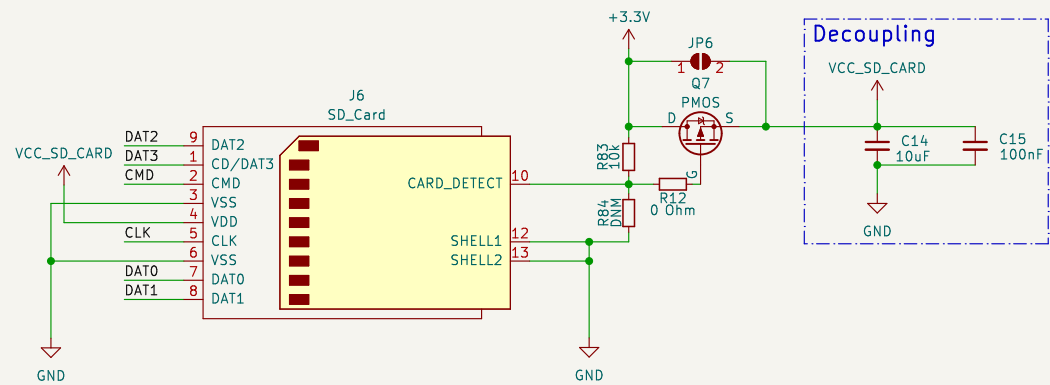
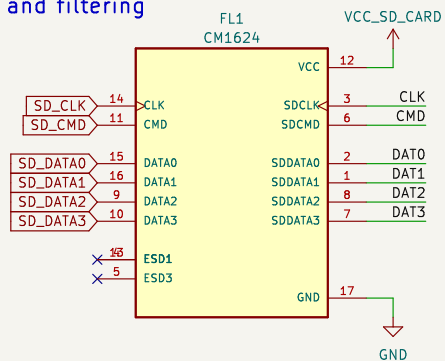
**Title:**

Size: A4	Date:
KiCad E.D.A. kicad (7.0.0)	

Rev:
Id: 4/7

## SD Card

### ESD protection and filtering



Sheet:

File: sd-card.kicad\_sch

**Title:**

Size: A4

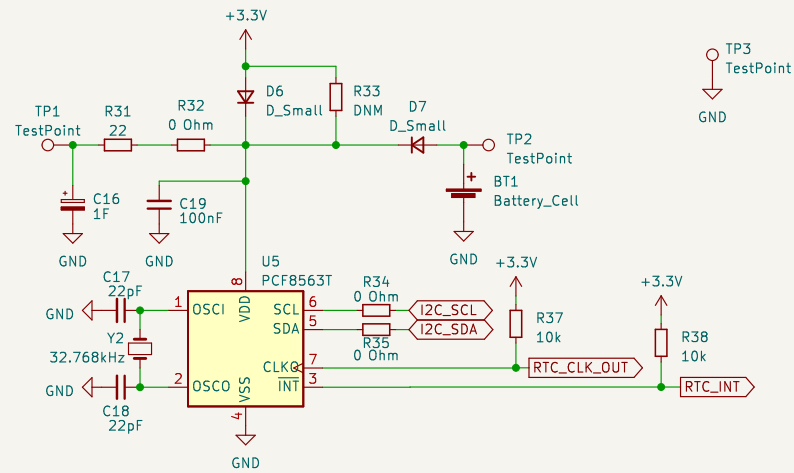
Date:

KiCad E.D.A. kicad (7.0.0)

**Rev:**

Id: 5/7

## RTC module



Sheet:  
File: rtc-module.kicad\_sch

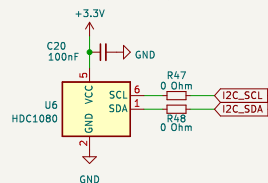
**Title:**

Size: A4  
KiCad E.D.A. kicad (7.0.0)

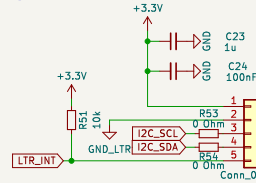
Date:

**Rev:**  
Id: 6/7

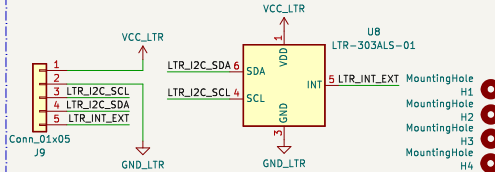
### Temperature and humidity sensor



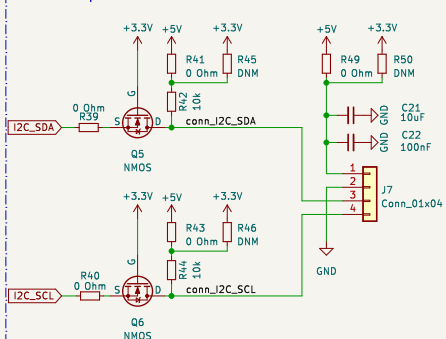
### Light intensity sensor



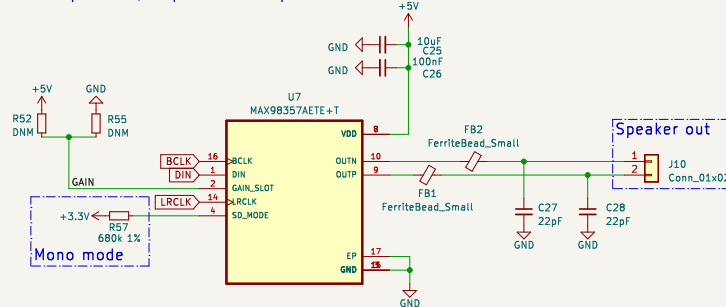
### Breakable tab



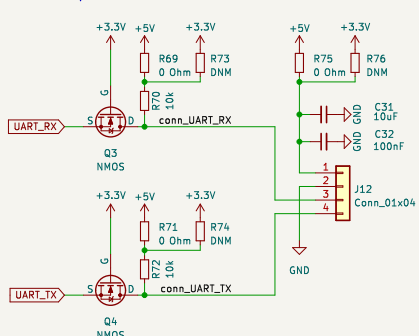
### I2C output



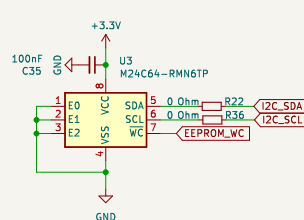
### Class D Amplifier / speaker output



### UART output



### EEPROM 64Kbit



Sheet:  
File: miscellaneous.kicad\_sch

**Title:**

Size: A3 Date: Kicad E.D.A. kicad (7.0.0)

Rev: Id: 7/7