

# MCU Wemos D1 mini V4

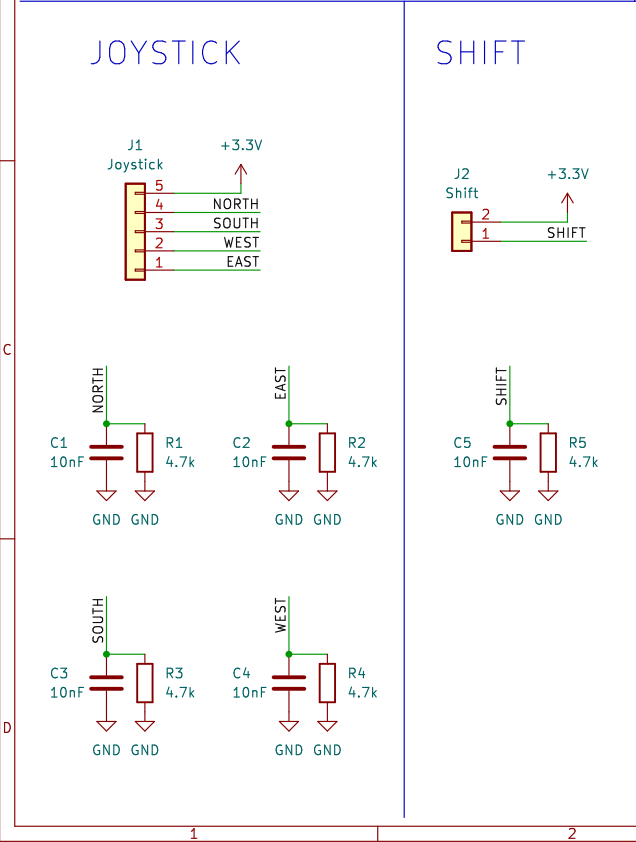
Wiring diagram for the MCU Wemos D1 mini V4 module. The module is connected to a power supply (+5V and +3.3V) and ground (GND). The module is labeled U1 WeMos\_D1\_mini.

Pin connections:

- Pin 1 (RST) to +5V
- Pin 9 (5V) to +5V
- Pin 8 (3V3) to +3.3V
- Pin 10 (GND) to GND

Module pinout (left to right):

- 1 RST
- 2 V\_SENSE
- 3 EAST
- 4 WEST
- 5 SOUTH
- 6 NORTH
- 7 SHIFT
- 8 3V3
- 9 5V
- 10 GND
- 11 FOC-
- 12 FOC+
- 13 SDA
- 14 SCL
- 15 RX
- 16 TX
- 17 CS/D8
- 18 MOSI/D7
- 19 MISO/D6
- 20 SCK/D5
- 21 D4
- 22 D3
- 23 SDA/D2
- 24 D0
- 25 A0



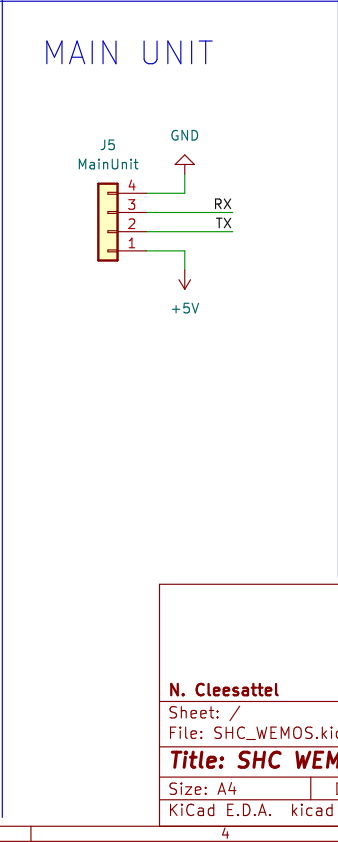
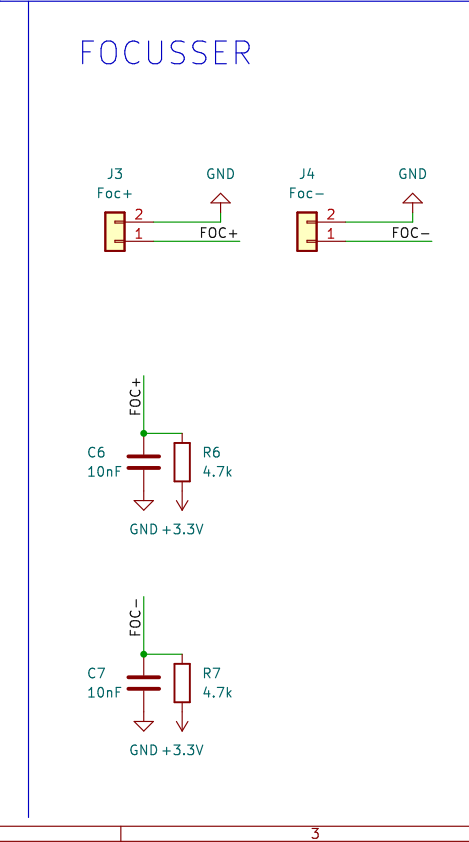
# DISPLAY

## 3.3V OLED

Diagram illustrating the wiring for a 3.3V OLED display. The display is connected to a microcontroller via I2C (SDA, SCL) and power (GND, +3.3V). The display's pins are labeled 1 through 7. The connections are as follows:

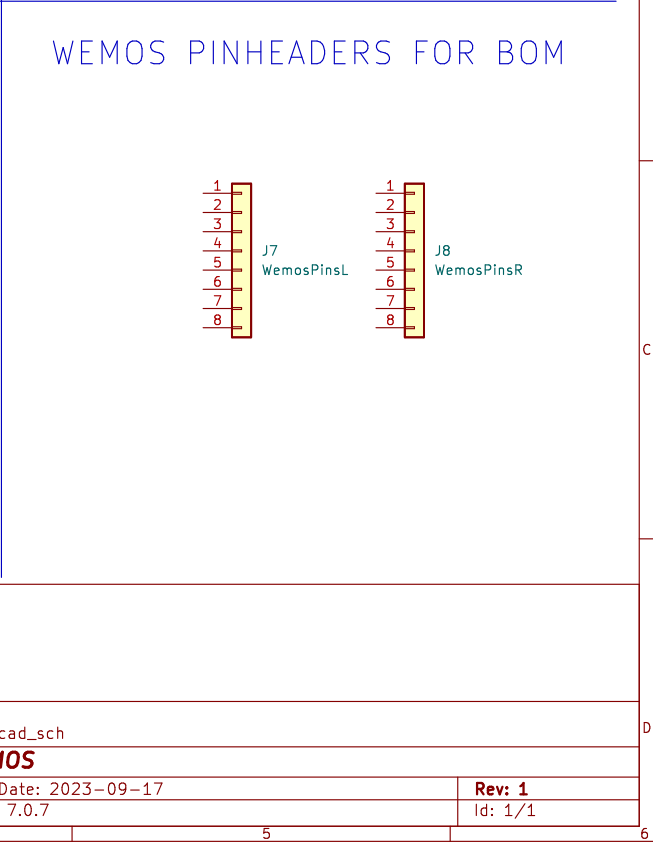
- Pin 7: Connected to GND (via JP2 pin 2).
- Pin 6: Connected to GND (via JP2 pin 1).
- Pin 5: Connected to RST.
- Pin 4: Connected to SDA.
- Pin 3: Connected to SCL.
- Pin 2: Connected to +3.3V.
- Pin 1: Connected to GND.

The jumpers JP1 and JP2 are shown with their respective pins labeled 1 and 2.



POWER

The diagram shows a power supply connection. At the top, a green arrow points upwards from a horizontal line, labeled "+3.3V". Below this line is a capacitor symbol, represented by two parallel horizontal lines. To the right of the capacitor, the text "C8" and "100uF" are written. Below the capacitor, a green arrow points downwards to a symbol representing ground, labeled "GND".



# JOYSTICK

J1  
Joystick

+3.3V

5 NORTH  
4 SOUTH  
3 EAST  
2 WEST  
1 EAST

NORTH

C1 10nF R1 4.7k  
GND GND

EAST

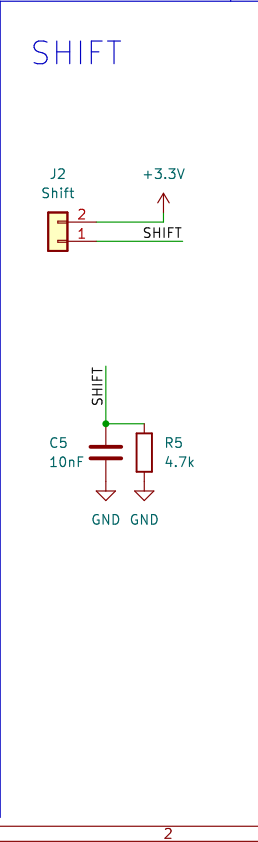
C2 10nF R2 4.7k  
GND GND

SOUTH

C3 10nF R3 4.7k  
GND GND

WEST

C4 10nF R4 4.7k  
GND GND



# FOCUSSEUR

J3  
Foc +

J4  
Foc -

GND

FOC +

FOC -

C6  
10nF

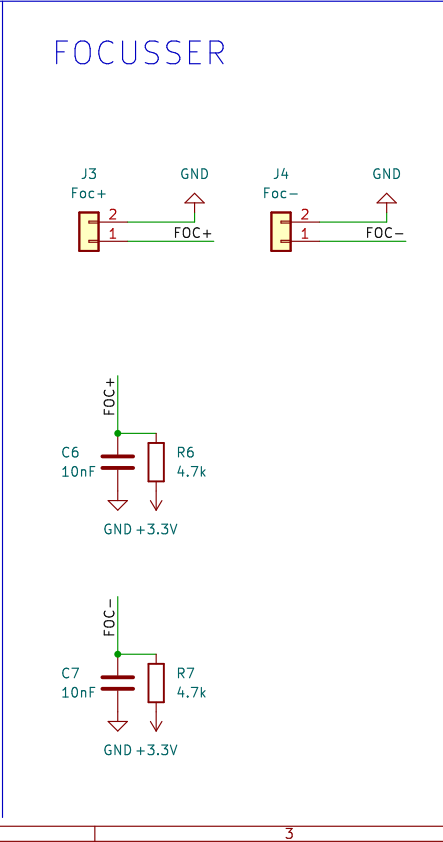
R6  
4.7k

GND + 3.3V

C7  
10nF

R7  
4.7k

GND + 3.3V



**MAIN UNIT**

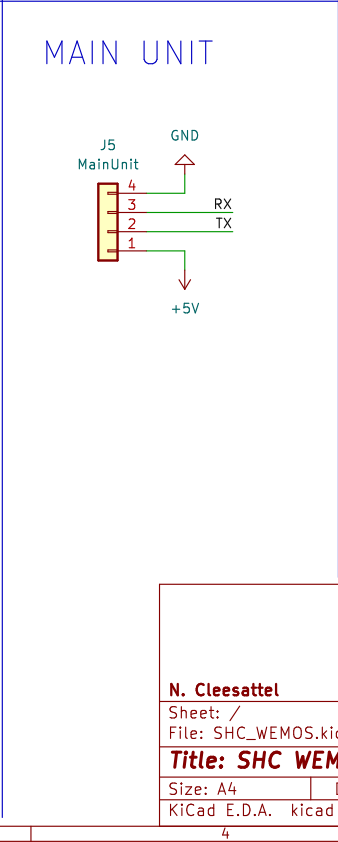
J5 MainUnit

4 → GND

3 → RX

2 → TX

1 → +5V



# WEMOS PINHEADERS FOR BOM

1

2

3

4

5

6

7

8

J7  
WemosPinsL

1

2

3

4

5

6

7

8

J8  
WemosPinsR

cad\_sch

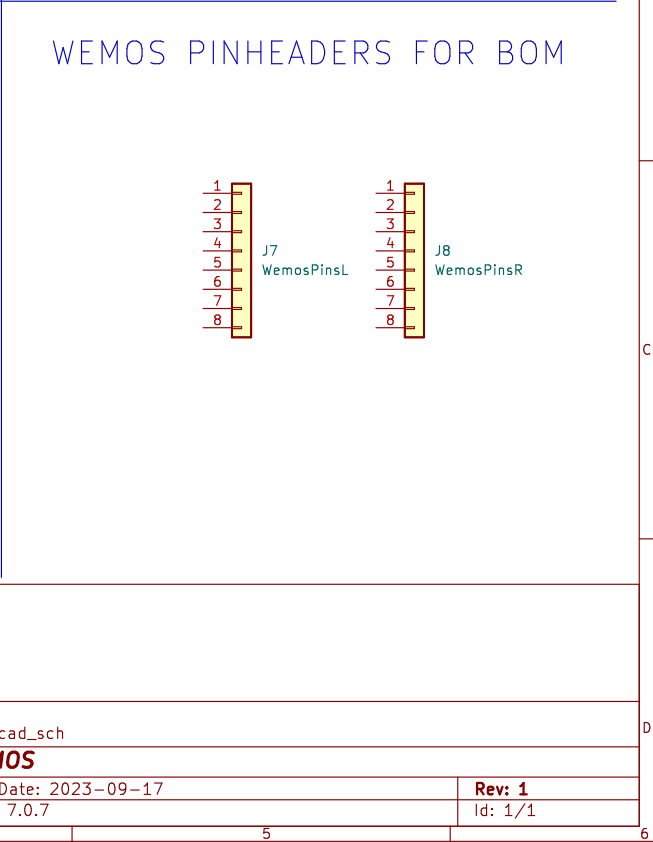
05

Date: 2023-09-17

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Rev: 1

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