

# Klipper

- [printer.cfg](#)

# printer.cfg

```
[include mainsail.cfg]

[include macros/*.cfg]


[virtual_sdcard]
path: /home/biqu/printer_data/gcodes
on_error_gcode: CANCEL_PRINT


[mcu]
serial: /dev/serial/by-id/usb-Klipper_XXXXXXXXXXXXXXXX

[printer]
kinematics: cartesian
max_velocity: 300
max_accel: 3000
max_z_velocity: 5
max_z_accel: 100


#####
###
# Temperature Sensors
#####
###


[temperature_sensor CB1]
sensor_type: temperature_host
min_temp: 10
max_temp: 100


[temperature_sensor E3EZ]
sensor_type: temperature_mcu
min_temp: 10
max_temp: 100


#####
###
```

## # Fan Settings

#####  
###

### [heater\_fan HotendFan]

pin: PB15  
max\_power: 1.0  
fan\_speed: 0.7  
kick\_start\_time: 0.1  
heater: extruder  
heater\_temp: 50.0

### [fan]

pin: PA8

### [temperature\_fan BoardFan]

pin: PB14  
max\_power: 1.0  
sensor\_type: temperature\_host  
control:watermark  
target\_temp: 45  
min\_temp: 0  
max\_temp: 90  
off\_below: 0.10  
kick\_start\_time: 0.50  
max\_speed: 0.9  
min\_speed: 0.3

#####  
###

## # neopixel Settings

#####  
###

### [neopixel Licht]

pin: PC7  
chain\_count: 2  
initial\_RED: 0.0  
initial\_GREEN: 1.0  
initial\_BLUE: 0.0

initial\_WHITE: 0.0

#####  
###

# BLTouch Settings

#####  
###

[bltouch]

sensor\_pin: PA6

control\_pin: PA7

samples: 2

#horizontal\_move\_z: 10

speed: 20

x\_offset: -31

y\_offset: -8

#z\_offset: 0.0

#####  
##

# Bed Mesh Settings

#####  
###

[bed\_mesh]

speed: 100

horizontal\_move\_z: 10

mesh\_min: 10, 10

mesh\_max: 133, 145

probe\_count: 4, 4

mesh\_pps: 2,2

fade\_start: 1

fade\_end: 10

fade\_target: 0

#####  
###

# 128x64 Full Graphic Creality CR10 / ENDER 3 stockdisplay

#####  
###

```
[display]
lcd_type: st7920
cs_pin: EXP1_7
sclk_pin: EXP1_6
sid_pin: EXP1_8
encoder_pins: ^EXP1_5, ^EXP1_3
click_pin: ^!EXP1_2
```

```
[output_pin beeper]
pin: EXP1_1
```

```
#####
# X configuration
#####
```

```
[stepper_x]
step_pin: PA14
dir_pin: PA10
enable_pin: !PA13
microsteps: 16
rotation_distance: 40
endstop_pin: ^PC4
position_min: -20
position_endstop: -20
position_max: 165
homing_speed: 50
```

```
[tmc2209 stepper_x]
uart_pin: PB8
#diag_pin: PC4
run_current: 0.800
stealthchop_threshold: 999999
```

```
#####
# Y configuration
#####
```

```
[stepper_y]
step_pin: PC8
```

```
dir_pin: PA15
enable_pin: !PC14
microsteps: 16
rotation_distance: 40
endstop_pin: ^PB0
position_endstop: 0
position_min: -5
position_endstop: -5
position_max: 165
homing_speed: 50
```

```
[tmc2209 stepper_y]
uart_pin: PC9
#diag_pin: PB0
run_current: 0.800
stealthchop_threshold: 999999
```

```
#####
# z configuration
#####
```

```
[stepper_z]
step_pin: PD2
dir_pin: PD4
enable_pin: !PD3
microsteps: 16
rotation_distance: 8
endstop_pin: probe:z_virtual_endstop
#position_endstop: 0
position_max: 180
position_min: -2.0
```

```
[tmc2209 stepper_z]
uart_pin: PD0
#diag_pin: PC6
run_current: 0.650
stealthchop_threshold: 999999
```

```
[safe_z_home]
home_xy_position: 114, 87 # Change coordinates to the center of your print bed
```

```
speed: 50
z_hop: 10          # Move up 10mm
z_hop_speed: 5
```

```
#####
# E configuration
#####
```

```
[extruder]
step_pin: PD5
dir_pin: !PD6
enable_pin: !PB3
microsteps: 16
rotation_distance: 33.500
nozzle_diameter: 0.400
filament_diameter: 1.750
heater_pin: PB11 #HE0
sensor_type: EPCOS 100K B57560G104F
sensor_pin: PA4 #TH0
#control: pid
#pid_Kp: 21.527
#pid_Ki: 1.063
#pid_Kd: 108.982
min_temp: 0
max_temp: 270
```

```
[tmc2209 extruder]
uart_pin: PD1
run_current: 0.800
stealthchop_threshold: 999999
```

```
[heater_bed]
heater_pin: PB2 #HB
sensor_type: EPCOS 100K B57560G104F #Generic 3950
sensor_pin: PA3 #TB
#control: watermark
min_temp: 0
max_temp: 130
```

```
[board_pins]
```

aliases:

```
# EXP1 header
```

```
EXP1_1=PC1, EXP1_3=PC3, EXP1_5=PC0, EXP1_7=PA2, EXP1_9=<GND>,
```

```
EXP1_2=PC2, EXP1_4=<RST>, EXP1_6=PA0, EXP1_8=PA1, EXP1_10=<5V>
```