

Klipper

```
[include mainsail.cfg]
[include macros/*.cfg]

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

[mcu]
serial: /dev/ttyAMA0
restart_method: command

[include mainsail.cfg]
[include macros/*.cfg]

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

[mcu]
serial: /dev/ttyAMA0
restart_method: command

[printer]
kinematics: cartesian
max_velocity: 200
max_accel: 1500
max_z_velocity: 10
max_z_accel: 500
square_corner_velocity: 10.0

#####
# Temperature configuration
#####

[temperature_sensor pi-zero]
```

sensor_type: temperature_host
min_temp: 10
max_temp: 100

[temperature_sensor pico-board]
sensor_type: temperature_mcu
min_temp: 0
max_temp: 100

#####

Fan configuration

#####

[heater_fan Hotend_Fan]
pin: gpio18
max_power: 1.0
fan_speed: 0.6
kick_start_time: 0.1
heater: extruder
heater_temp: 50.0

[heater_fan controller_fan]
pin: gpio17
heater: extruder
max_power: 1.0
heater_temp: 30.0

[fan]
pin: gpio20

#####

bl-touch configuration

#####

[bltouch]
sensor_pin: gpio22
control_pin: gpio29
z_offset: 0

#####

```
# adxl345 configuration
#####

[mcu host]
serial: /tmp/klipper_host_mcu

[adxl345]
cs_pin: host:None

[resonance_tester]
accel_chip: adxl345
probe_points:
    100, 100, 20 # an example

#####
# X-Axis configuration
#####

[stepper_x]
step_pin: gpio11
dir_pin: !gpio10
enable_pin: !gpio12
microsteps: 16
rotation_distance: 40
endstop_pin: ^gpio4
# endstop_pin: tmc2209_stepper_x:virtual_endstop
# homing_retract_dist: 0
position_endstop: 0
position_max: 235
homing_speed: 50

[tmc2209 stepper_x]
uart_pin: gpio9
tx_pin: gpio8
uart_address: 0
run_current: 0.8
hold_current: 0.6
stealthchop_threshold: 999999
# diag_pin: ^gpio4
# driver_SGTHRS: 100
```

#####

Y-Axis configuration

#####

[stepper_y]

step_pin: gpio6

dir_pin: !gpio5

enable_pin: !gpio7

microsteps: 16

rotation_distance: 40

endstop_pin: ^gpio3

endstop_pin: tmc2209_stepper_y:virtual_endstop

homing_retract_dist: 0

position_endstop: 0

position_max: 235

homing_speed: 50

[tmc2209 stepper_y]

uart_pin: gpio9

tx_pin: gpio8

uart_address: 2

run_current: 0.8

hold_current: 0.6

stealthchop_threshold: 999999

diag_pin: ^gpio3

driver_SGTHRS: 100

#####

Z-Axis configuration

#####

[stepper_z]

step_pin: gpio19

dir_pin: gpio28

enable_pin: !gpio2

microsteps: 16

rotation_distance: 8

endstop_pin: ^gpio25

position_endstop: 0

```
endstop_pin: probe:z_virtual_endstop
position_min: -2.0
position_max: 250
homing_speed: 12
```

```
[tmc2209 stepper_z]
uart_pin: gpio9
tx_pin: gpio8
uart_address: 1
run_current: 0.580
hold_current: 0.500
stealthchop_threshold: 999999
```

```
[safe_z_home]
home_xy_position: 117,85 # Change coordinates to the center of your print bed
speed: 50
z_hop: 10          # Move up 10mm
z_hop_speed: 5
```

```
#####
# Extruder configuration
#####
```

```
[extruder]
step_pin: gpio14
dir_pin: !gpio13
enable_pin: !gpio15
microsteps: 16
rotation_distance: 33.500
nozzle_diameter: 0.4
filament_diameter: 1.75
heater_pin: gpio23
sensor_type: EPCOS 100K B57560G104F
sensor_pin: gpio27
#control: pid
#pid_kp: 30.001
#pid_ki: 1.563
#pid_kd: 144.003
min_temp: 0
max_temp: 260
```

max_extrude_cross_section:2

[tmc2209 extruder]

uart_pin: gpio9

tx_pin: gpio8

uart_address: 3

run_current: 0.650

hold_current: 0.500

stealthchop_threshold: 999999

#####

Bed configuration

#####

[heater_bed]

heater_pin: gpio21

sensor_type: EPCOS 100K B57560G104F

sensor_pin: gpio26

control: pid

pid_Kp: 54.027

pid_Ki: 0.770

pid_Kd: 948.182

min_temp: 0

max_temp: 90

#####

###

Bed Mesh Settings

#####

###

[bed_mesh]

speed: 100

horizontal_move_z: 10

mesh_min: 10, 5

mesh_max: 113, 135

probe_count: 4, 4

mesh_pps: 2,2

fade_start: 1

fade_end: 10

fade_target: 0

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