

# Ender 2 pro 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_XXXXXXXXXXXXXX

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

#####
###
# "RepRapDiscount 128x64 Full Graphic Smart Controller" type displays
#####
###

[board_pins]
aliases:
    # EXP1 header
    EXP1_1=PD5, EXP1_3=PB3, EXP1_5=PB5, EXP1_7=PB7, EXP1_9=<GND>,
    EXP1_2=PD4, EXP1_4=PD6, EXP1_6=PB4, EXP1_8=PB6, EXP1_10=<5V>,
    # EXP2 header
    EXP2_1=PB14, EXP2_3=PB8, EXP2_5=PC10, EXP2_7=PC12, EXP2_9=<GND>,
    EXP2_2=PB13, EXP2_4=PB9, EXP2_6=PB15, EXP2_8=<RST>, EXP2_10=<NC>

[display]
lcd_type: st7920
cs_pin: EXP1_4
```

sclk\_pin: EXP1\_5  
sid\_pin: EXP1\_3  
encoder\_pins: ^EXP2\_3, ^EXP2\_5  
click\_pin: ^!EXP1\_2  
#kill\_pin: ^!EXP2\_8

[output\_pin beeper]  
pin: EXP1\_1

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

[temperature\_sensor CB1]  
sensor\_type: temperature\_host  
min\_temp: 10  
max\_temp: 100

[temperature\_sensor M5P]  
sensor\_type: temperature\_mcu  
min\_temp: 10  
max\_temp: 100

#####  
# Fan configuration  
#####

[heater\_fan HotendFan]  
pin: PA3  
max\_power: 1.0  
fan\_speed: 1.0  
kick\_start\_time: 0.1  
heater: extruder  
heater\_temp: 50.0

[fan]  
pin: PA4

```
#[heater_fan SoC_fan]
#pin: cb1:gpio79
```

```
#####
###
```

```
# BLTouch Sensors
```

```
#####
###
```

```
[bltouch]
```

```
sensor_pin: PC13
```

```
control_pin: PC15
```

```
samples: 2
```

```
#horizontal_move_z: 10
```

```
speed: 20
```

```
x_offset: -41
```

```
y_offset: -8
```

```
#z_offset: 0.0
```

```
#####
###
```

```
# 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
```

```
#####
# NeoPixel configuration
#####
```

[neopixel Licht]

pin: PC11

chain\_count: 1

initial\_RED: 0.0

initial\_GREEN: 1.0

initial\_BLUE: 0.0

initial\_WHITE: 0.0

#####

# X-Axis configuration

#####

[stepper\_x]

step\_pin: PC8

dir\_pin: !PC9

enable\_pin: !PA15

microsteps: 16

rotation\_distance: 40

endstop\_pin: ^PD3

position\_endstop: 0

position\_max: 155

homing\_speed: 50

[tmc2209 stepper\_x]

uart\_pin: PD9

run\_current: 0.800

diag\_pin: PD3

stealthchop\_threshold: 999999

#####

# Y-Axis configuration

#####

[stepper\_y]

step\_pin: PA10

dir\_pin: !PA14

enable\_pin: !PA13

microsteps: 16

rotation\_distance: 40

```
endstop_pin: ^PD2
position_endstop: 0
position_max: 150
homing_speed: 50
```

```
[tmc2209 stepper_y]
uart_pin: PD8
run_current: 0.800
diag_pin: PD2
stealthchop_threshold: 999999
```

```
#####
# Z-Axis configuration
#####
```

```
[stepper_z]
step_pin: PC6
dir_pin: PC7
enable_pin: !PA9
microsteps: 16
rotation_distance: 8
#endstop_pin: ^PC3
endstop_pin: probe:z_virtual_endstop
#position_endstop: 0.0
position_max: 170
position_min: -2.0
```

```
[tmc2209 stepper_z]
uart_pin: PB10
run_current: 0.800
diag_pin: PC3
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: PB12

dir\_pin: PB11

enable\_pin: !PA8

microsteps: 16

#rotation\_distance: 33.500

rotation\_distance: 23.467

nozzle\_diameter: 0.400

filament\_diameter: 1.750

heater\_pin: PC5

sensor\_type: EPCOS 100K B57560G104F

sensor\_pin: PA1

#control: pid

#pid\_Kp: 21.527

#pid\_Ki: 1.063

#pid\_Kd: 108.982

min\_temp: 0

max\_temp: 270

[tmc2209 extruder]

uart\_pin: PB2

run\_current: 0.800

diag\_pin: PC2

stealthchop\_threshold: 999999

#####

# Bed configuration

#####

[heater\_bed]

heater\_pin: PA5

sensor\_type: Generic 3950

sensor\_pin: PA0

#control: watermark

min\_temp: 0

max\_temp: 130

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Revision #7

Created 23 June 2023 08:10:39 by sylvio

Updated 11 August 2023 12:52:28 by sylvio