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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