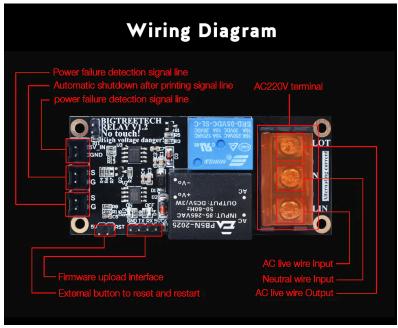
POWER OFF PRINTER - Manta M8P Control Board

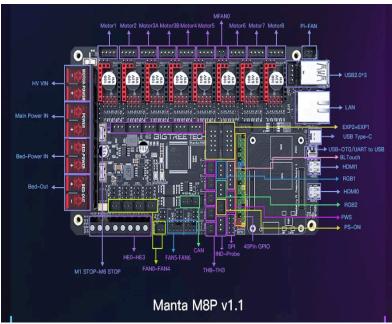
This setup guide is for the BTT Manta M8P control board and the BTT Power Relay v1.2

1. Hardware

Print this case for the BTT power relay Power relay case

Install the relay and connect the center "Automatic shutdown" pins on the relay board to pin PC3 PS-ON on the M8P board:





2. Firmware

Set your idle timeout in printer.cfg:

```
[idle_timeout]
gcode:
    RESPOND TYPE=echo MSG="No operations in 10min!"
    TURN_OFF_HEATERS
# A list of G-Code commands to execute on an idle timeout. See
# docs/Command_Templates.md for G-Code format. The default is to run
# "TURN_OFF_HEATERS" and "M84"
timeout: 600; 600 = 10 minutes
```

Add to moonraker.cfg:

[power Printer_plug]
type: klipper_device
object_name: gcode_macro POWER_OFF_PRINTER

Add to printer.cfg:

#PS Power control switch [output_pin Printer_plug] pin: PC3

Mainsail interface:

In Mainsail, go to **Interface settings -> UI Settings -> Printer Power Device** and select the new device in the dropdown

Add to macros.cfg:

```
UPDATE DELAYED GCODE ID=POWER OFF PRINTER CHECK DURATION=0
     _POWER_OFF_PRINTER
    {% else %}
     UPDATE DELAYED GCODE ID=POWER OFF PRINTER CHECK DURATION=2
    {% endif %}
 {% else %}
    {% if printer.idle timeout.state == "Printing" %}
     UPDATE DELAYED GCODE ID=POWER OFF PRINTER CHECK DURATION=0
   {% else %}
     {% if printer.extruder.target == 0.0 and printer.heater bed.target == 0.0 %}
       UPDATE DELAYED GCODE ID=POWER OFF PRINTER CHECK DURATION=2
     {% else %}
       UPDATE DELAYED GCODE ID=POWER OFF PRINTER CHECK DURATION=0
     {% endif %}
   {% endif %}
 {% endif %}
{% endif %}
[gcode_macro ACTIVATE_POWER_OFF]
gcode:
 UPDATE DELAYED GCODE ID=POWER OFF PRINTER CHECK ACT DURATION=60
[gcode macro DEACTIVATE POWER OFF]
gcode:
 UPDATE_DELAYED_GCODE ID=POWER_OFF_PRINTER_CHECK_ACT DURATION=0
[delayed gcode POWER OFF PRINTER CHECK ACT]
gcode:
{% if printer.idle timeout.state == "Idle" or printer.idle timeout.state == "Ready" %}
 UPDATE_DELAYED_GCODE ID=POWER_OFF_PRINTER_CHECK DURATION=30
{% else %}
 UPDATE DELAYED GCODE ID=POWER OFF PRINTER CHECK ACT DURATION=60
{% endif %}
```