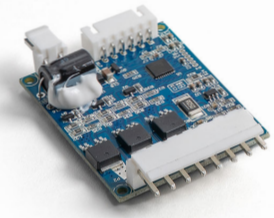
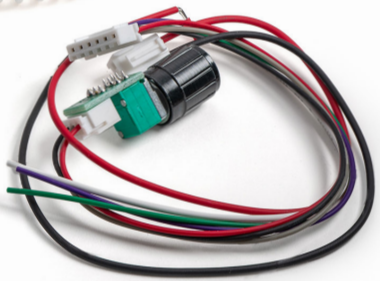
QUICK SETUP GUIDE

Wiring the CPAP fan controller to Octopus





BONDTECH

WS7040 driver wiring

This is a short supplementary guide showing how to wire the WS7040 driver to Octopus or Octopus Pro. The steps outlined here will apply to other boards as long as there is a 5v digital pin on the board.

WS7040 driver board

Connect to PG12 on Octopus

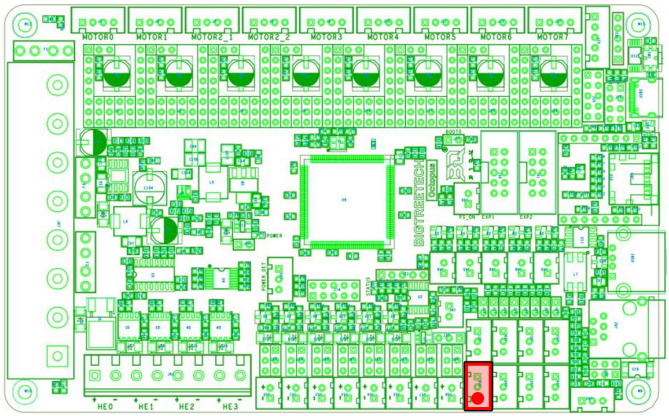
This line from the fan driver board requires a 5V positive digital pin.

Connect to PSU 24v positive

Connect to PSU 24v GND

You may connect this to a MOSFET driven pin but you need to configure a macro or set pins high or low in the MCU.

This should not be anything but 0% or 100% duty cycle.



Configuring printer.cfg

This replaces your [fan] section in your printers configuration file. Values below are those required for the fan to function. Any other customizations you may have can possibly be kept in that section.

```
[fan]
##  Print Cooling Fan - CNC_FAN0
## This needs to be a 5v positive digital pin, example is for Octopus and Octopus Pro variants
pin: PG12
## Tune to your needs. This fan needs some extra time to spin up
## before bridges which can and should be compensated for in the slicer
kick_start_time: 0.3
## Increase this value if the fan doesn't turn at 20% speed
off_below: 0.2
## Set PWM frequency suited to your driver
cycle_time: 0.0003
```

HOW TO GET HELP

We are available to help you with any questions or issues you may have. Simply go to our website where you can access our customer support and send us your questions or follow the provided link:

https://www.bondtech.se/contact/#tab_technical-support-requests

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