RepRapFirmware Configuration Tool

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| Parameter | Value | Notes |
| General Preferences | | |
| Board | Duet 3 MB 6HC |  |
| Firmware version | 3.3 or later (stable) |  |
| Run in standalone mode without SBC | False |  |
| Read config-overide.g file at end of startup process | False |  |
| Save print state on power failure | False |  |
| Printer Geometry | | |
| Printer Geometry | CoreXY |  |
| X minimum | 0 mm |  |
| X maximum | 2040 mm |  |
| Y minimum | 0 mm |  |
| Y maximum | 960 mm |  |
| Z minimum | 0 mm |  |
| Z maximum | 960 mm |  |
| Homing Preferences | | |
| Homing Speed (First Pass) | 30 mm/s |  |
| Homing Speed (Second Pass) | 6 mm/s |  |
| Travel Speed | 100 m/s |  |
| Z Dive Height | 5 mm |  |
| Set dive height to 30mm for initial calibration | False |  |
| Expansion Boards | | |
| EXP3HC | 3 count | Add 3 boards, info is auto populated from the data in the config tool |
| Drives | | |
| Drive X – Driver | Board 3 – Driver 0 |  |
| Drive X – Endstop Pin | io1.in |  |
| Drive Y – Driver | Board 3 – Driver 1 |  |
| Drive Y – Endstop Pin | io2.in |  |
| Drive Z – Driver | Driver 0 | There are actually 6 drives (0-5) on the main board for Z axis. Can’t seem to configure this in the tool. |
| Drive Z – Endstop Pin | Not assigned |  |
| Drive E0 | Board 3 – Driver 2 | Extruder drive |
| Heaters | | |
| 0 – Type | Nozzle |  |
| 0 – Output | Board 3 – out0 |  |
| 0 – Sensor | Board 3 – temp0 |  |
|  |  | More heaters for the bed to be added later |
| Fan Mapping | | |
| Fan 0 - Output | Board 3 – out4 | 12V extruder fan |
| Fan 1 – Output | Board 2 – out5 | Water fan |
| Fan 2 – Output | Board 3 – out6 | Water pump |
| Z Probe | | |
| Input Pin | Board 3 – io1.in |  |
| Modulation Pin | Not assigned |  |
| PWM Control Channel | Not assigned |  |
| Axes | | |
| X - Direction | Backwards |  |
| X - Microstepping | x16 (on) | Default |
| X – Steps per mm | 80 | Default |
| X – Max Speed Change (mm/s) | 15 mm/s | Default |
| X – Max Speed (mm/s) | 100 mm/s | Default |
| X – Acceleration (mm/s^2) | 500 mm/s^2 | Default |
| X – Motor Current (mA) | 2800 mA | From notes, not existing firmware |
| Y - Direction | Backwards |  |
| Y - Microstepping | x16 (on) | Default |
| Y – Steps per mm | 80 | Default |
| Y – Max Speed Change (mm/s) | 15 mm/s | Default |
| Y – Max Speed (mm/s) | 100 mm/s | Default |
| Y – Acceleration (mm/s^2) | 500 mm/s^2 | Default |
| Y – Motor Current (mA) | 2800 mA | From notes, not existing firmware |
| Z - Direction | Forwards |  |
| Z - Microstepping | x16 (on) | Default |
| Z – Steps per mm | 400 | Default |
| Z – Max Speed Change (mm/s) | 1 mm/s | Default |
| Z – Max Speed (mm/s) | 3 mm/s | Default |
| Z – Acceleration (mm/s^2) | 20 mm/s^2 | Default |
| Z – Motor Current (mA) | 800 mA | Default, notes say 1000 |
| Extruders | | |
| E0 - Direction | Forwards |  |
| E0 - Microstepping | x16(on) |  |
| E0 – Steps per mm | 837 | From existing firmware |
| E0 – Max Speed Change (mm/s) | 2 mm/s |  |
| E0 – Max Speed (mm/s) | 20 mm/s | default |
| E0 – Acceleration (mm/s^2) | 250 mm/s^2 | Default |
| E0 – Motor Current (mA) | 800 mA | default |
| Motor Current Reduction | | |
| Reduce motor currents when idle | True | Disabled on existing firmware |
| Idle Current Percentage | 30 % | default |
| Idle Timeout | 30 s | Default |
| Endstop Configuration | | |
| X – Endstop Type | Switch |  |
| X – Endstop Location at | Low End |  |
| Y – Endstop Type | Switch |  |
| Y – Endstop Location at | High End |  |
| Z – Endstop Type | Z-Probe |  |
| Z – Endstop Location at | Low End |  |
| Z-Probe | | |
| Probe X Offset | 0 mm | Verify this |
| Probe Y Offset | 0 mm | Verify This |
| Probing Speed | 2 mm/s | default |
| Deploy/Retract Probe | false |  |
| Probe Type | Switch | Verify this – what is the probe? |
| Trigger Height | 2.5 mm | default |
| Trigger Value | 500 | default |
| General Heater Settings | | |
|  |  | Fill in when applying bed heaters |
| Heater Configuration | | |
| Heater 0 Nozzle – Temp Limit | 240 C | Higher than default, lower than current firmware. Allow 200C for PLA |
| Heater 0 Nozzle – PWM Limit | 100 % | default |
| Heater 0 Nozzle – R25 | 100000 Ohms | default |
| Heater 0 Nozzle – Beta | 4138 K | default |
| Heater 0 Nozzle – C | 0 | default |
| Cooling Fans | | |
| Fan 0 – Speed | 0 % | Fan 0 – Extruder fan default |
| Fan 0 – Frequency | 500 Hz | default |
| Fan 0 – Thermostatic Control | No |  |
| Fan 0 – Monitored Heaters | N/A | No thermostatic control |
| Fan 0 – Thermostatic Mode Triggered Temperature | N/A | No thermostatic control |
| Fan 1 – Speed | 100 % | default |
| Fan 1 – Frequency | 500 Hz | default |
| Fan 1 – Thermostatic Control | Yes |  |
| Fan 1 – Monitored Heaters | H0 | Monitor extruder |
| Fan 1 – Thermostatic Mode Triggered Temperature | 45 C |  |
| Fan 2 – Speed | 100 % | default |
| Fan 2 – Frequency | 500 Hz | default |
| Fan 2 – Thermostatic Control | Yes |  |
| Fan 2 – Monitored Heaters | H0 | Monitor extruder |
| Fan 2 – Thermostatic Mode Triggered Temperature | 45 C |  |
| Tool Preferences | | |
| Wait for temperatures to be reached on tool change | True | default |
| Select the First Tool on start-up | True | Only one tool right now, start with it selected |
| Tools | | |
| Tool 0 – Number | 0 | default |
| Tool 0 – Name | SuperVolcano | Print head |
| Tool 0 – Extruders | E0 |  |
| Tool 0 – Heaters | Not selected |  |
| Tool 0 – Print Cooling Fans | FAN0 |  |
| Tool 0 – XYZ Offsets | (0,0,0) | No offsets, Verify |
| Bed Probing for Mesh Bed Compensation | | |
| X Minimum | 15 mm | default |
| X Maximum | 215 mm | default |
| Y Minimum | 15 mm | default |
| Y Maximum | 195 mm | default |
| Grid Spacing | 20 mm | default |
| Orthogonal Axis Compensation | | |
| Enable Orthogonal Axis Compensation | False |  |
| Miscellaneous | | |
| Enable support for PanelDue | True |  |
| Custom Settings for config.g | None | Add further customization here |