**Hoektronics CNC Controller Specs v2**

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| **Licensing** | * 100% Open Source Hardware, GPLv3 * Source: github.com/Hoektronics/Hoektron-CNC |
| **Input Power** | * Power Input: ??? * Internal regulators to 5V@1A and 3.3V@1A * Replaceable fuse for safety (5x20 cylinder type) |
| **CPU** | * Arduino DUE (or MEGA) |
| **Connectivity** | * USB 2.0 Full Speed (B Connector) * Optional: Bluetooth v2.0 (via RN-42 module) |
| **Spindle / Vacuum Control** | * 2 fully isolated relays capable of 230V * Standard NC/NO/Common pins exposed. * Spindle accepts digipot voltage for speed control. |
| **Motion Control** | * 5 x Step/Dir/Enable headers for stepper drivers. * Full XYZ endstop switches * Tool zeroing input |
| **Storage** | * microSD slot w/ support for up to 32GB cards. |
| **Debug** | * 3.3v TTL Serial connection |
| **Peripherals** | * Door open/close input * Pause / Play input * Spindle speed input * Buzzer for alerts and simple user feedback * Conveniently accessible SPI, i2c, CAN, UART, ADC, and PWM via individual, polarized headers. |
| **Firmware** | * ??? * SmoothieWare (<http://www.smoothieware.org>) |
| **Host Controllers** | * Via Linux, OSX, or Windows computer over USB, network, or Bluetooth. * Via Internet using BotQueue. * Via Android or iPhone using native apps through Bluetooth. |