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Awesome.Tech Announces the 'Super Gerbil' Kickstarter Launch

EMBARGOED for Kickstarter launching 6am 2nd November (Pacific Daylight Time, USA)

Feature List

Specifications

- Free, user-friendly open source tool-chain (Inkscape, Fusion360, G-code sender)
- M modal controls: M0 to 9 and basic ATC based on M6/Tn Gcodes(2 outputs)
- G motion controls: G0..4,10,17,20,21,28,28.1,30,30.1,33,38.1..5, 40,43,49,53..59,61,90..94
- 5 simultaneous stepper motor axis control, to control your most exotic equipment or machine
- 5 stepper sockets for your choice of stepper (TMC2100, DRV8880, DRV8825, A4988 etc and breakout pins for external high-power step drivers (>2.5A)
- Stepper frequency up to 100kHz
- 16 Bits PWM (with composite outputs, opto-isolated, 5 or 10V) to drive your laser or VFD spindle control
- PWM frequency configurable 60..80.000Hz
- PWM Soft start feature to rev up your spindle to its desired revolutions
- 1 socket for DC motor drivers (with direction control) 2.7A/60VDC
- 1 Additional opto-isolated direction port (i.e. drive a relay) to drive your spindle/lathe motor's direction
- 4 Additional opto-isolated ports (Tn/M6/7/8/9 i.e. to automate ATC, flood, mist, conveyor belt etc.)
- Limit switches on all 5 axis and a probe switch (all opto-isolated and can be inverted)
- Pause/Resume/Abort switches (all opto-isolated)
- High performance 72MHz 32 bits STM32 ARM Cortex controller to provide smooth and responsive control
- Opto-isolators for reliability and piece-of-mind (5kV, emc noise elimination, plasma cutter application)
- All I/O ports have led indicators to ease the installation and operation
- Bluetooth and USB connectivity to phone/tablet/PC for convenience of monitoring and management
- Extendable gcode features like canned cycles G76, threading and tapping G81..99 are on our future firmware additions list (64k or 128k chip has lots of room for additions)
- More of the awesome support provided for the Original Gerbil