Silent Plug and Play

Stepper Motor Control Board

PANTHER Series

@SilentControlBoards.com



Panther TMC5160



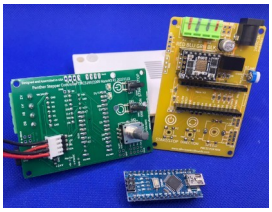
The Panther Controller is designed as a stand alone device for use with a peristaltic pump that is powered by a stepper motor. It is also suitable for other devices where adjustable speed, smooth and quiet operation especially at low speeds is needed. Operation range is 0.1 to 400 RPM depending on motor and load characteristics and is reversible. Out of the box start up is quick and easy because only the most essential control and display is seen by the user. Connecting wires to stepper motors is made easier with a removable screw terminal connector.

Standard Features Part No. PAN-3A-12V-24V-Case

For Use with	2-Phase Bipolar Motors
Sizes	Nema 8, 11, 14, 17, 23, 24
Current Rating	Maximum 3A
Case Dimensions	3.4 L x 2.4 W x 1.6 H " (87x61x41mm)
Weight	3.5 oz. (100g)
Material of Construction	PLA Printed Case
User Controls	Momentary Push Button Stop/Start, Reverse Rotation Encoder for speed selection with press for momentary maximum Imax setting accessible on left panel with tool
OLED Display	ON/OFF, Direction, RPM and Imax Current setting
Power Supply	24VDC, 4AMP, 100W Recommended, Min 12VDC, Max 30VDC Use 5.5 x 2.1mm barrel connector
Motor Driver IC	Trinamic TMC5160, 256 microsteps
Microcontroller	ATmega328P

Options

Hardware	Opto-isolated inputs for 24VDC PLC signal Analog 4-20mA, 0-10V
Software	Customized for applications such as dispensing, start-up configuration, reprogram user controls for special operations and more.



For assistance, contact silentcontrolboards2025@gmail.com +1 214-603-4504

202511