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TECHNOLOGY GROUP

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Custom engineering
so your equipment works exactly as you specify.

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- In stock / Ready-to-ship
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- ITAR-certified secure asset solutions

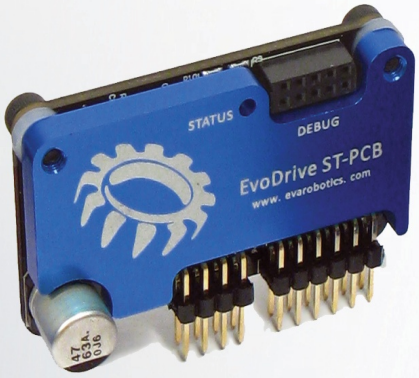
Expert team | Trust guarantee | 100% satisfaction

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Find the *EVA Robotics EvoDrive ST-34* at our website: ***Click HERE***

EvoDrive ST-PCB

Stepper Motor Controller



Designed for OEMs

The EvoDrive ST-PCB has been designed with the product design engineer in mind. The ST-PCB provides the full closed-loop performance of the EvoDrive in a cost-effective embedded module.

The EvoDrive ST-PCB is perfect for bench-top robotics and precision automation. It is particularly suited for multi-axis designs where BOM cost and time to market are critical.

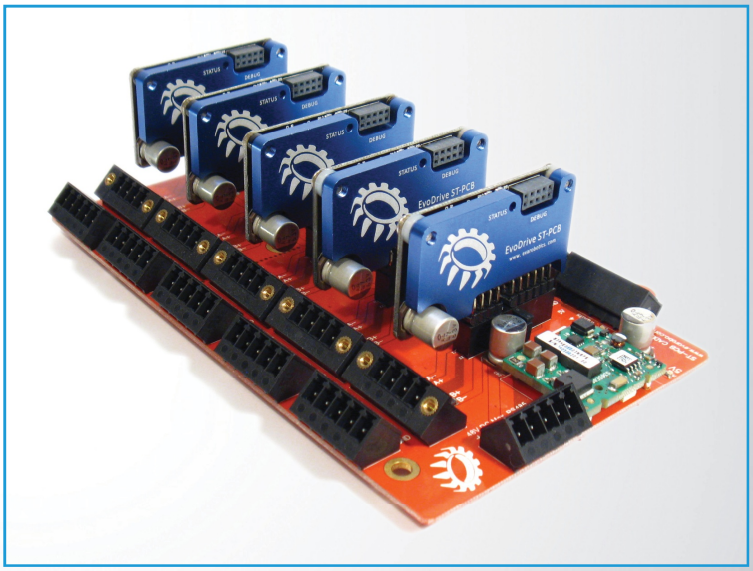
ST-PCB 5-axis Caddy

The ST-PCB is designed for integration with your own product electronics.

Sometimes, however, you just need an off-the-shelf multi-axis controller - perhaps for a light CNC project or 3D printer. The ST-PCB Caddy provides full support electronics for up to five ST-PCB modules.

The ST-PCB Caddy provides:

- Single voltage input (12-48VDC)
- Opto-isolated inputs to each ST-PCB module.
- On board RS485 bus to each module, with a single connection to the ST-PCB Caddy.
- On board bulk capacitance, EM Filtering, and layout for EMC to ensure minimal electrical noise.
- Screw Terminal headers for easy connectivity



eva@evarobo.com | www.evarobo.com

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ST-PCB Controller Specifications

Motor Driver	Minimum	Nominal	Maximum
Power Supply Voltage	12V DC	24V DC	48V DC
Peak Motor Current	0.01 A	1.7 A	3.0 A
Maximum Resolution	102400 steps / rev		
PWM Frequency		33.3 KHz	
Motor Compatability	2-Phase Bipolar Stepper Motors Any step size (0.9° to 7.2°)		
Motor Speed (RPM)		Motor dependent	3000 RPM

Accuracy	Minimum	Nominal	Maximum
Open-loop step size	0.00352° (102400 steps/rev)		
Open-loop accuracy		Dependent on load	1 motor step
Closed-loop Encoder Resolution CPR (After Quad)	2048 (8192)	4096 (16384)	25600 (102400)
Standard Encoder Resolution CPR (After Quad)		4096 (16384)	
Standard Closed-loop Accuracy	0.04395° (Encoder/2)		
Closed-loop Control Mode	Four-Quadrant Servo Control		

Communications	Minimum	Nominal	Maximum
Comms Interfaces Channel 1	Virtual RS232 over USB (via seperate adaptor)		
Comms Interfaces Channel 2	SPI UART (RS232 or RS485 supported via external transceivers)		
UART BAUD Rate	9600	9600	115200
SPI Max Clock Rate			4MHz
RS485 Flow Control	via Input 4 pin if configured		
Command Protocols Both Channels	Stacked ASCII Commands Non-Stacked Binary commands		
Max Command Length			128 Characters

Digital I/O	Minimum	Nominal	Maximum
General Purpose Inputs	4 CMOS Logic Inputs (weak pull-down)		
General Purpose Outputs	0		
Digital Input Low Voltage	0V DC		1.3V DC
Digital Input High Voltage	2.0V DC		5V DC
Power Rails Required	5.0V DC (approx 50mA)		
Digital Control Modes	Step/Dir CW/CCW Triggered Programs		
Triggered Programs	10 single-line programs which can be triggered by: Each Input (Pos or Neg Edge), Driver Startup, Encoder Index Pulse		
Triggered Program Length	64 Characters		

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Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

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