

The Model 501-00061 Rev A is a versatile Single Axis Drive designed to control either a stepper motor or a servo motor. It supports stepper motors using Pulse/Direction signals and servo motors using PWM signals, as well as Analog outputs. Communication options include Serial, Ethernet, and USB, providing flexible integration for various systems.

Applications

- Industrial Robotics
- Single Axis Motion Control
- Special purpose machines
- Test and measurement units

Supported Motor Types

- Brushless DC motor
- DC brush motor
- Stepper motor

Profile Modes

- S-curve point-to-point
- Trapezoidal point-to-point
- Velocity contouring

Position Loop

- PID control with velocity and acceleration feedforward
- Dual bi-quads

Feedback

- Incremental encoder: Quadrature A, B, and Z

Digital I/Os

- 4 Digital Outputs
- 4 Digital Inputs

Communication Interfaces

- RS232
- Ethernet
- CAN
- USB
- ETHERCAT

Analog I/Os

- 2 Analog Inputs

Safe Torque Off (STO)

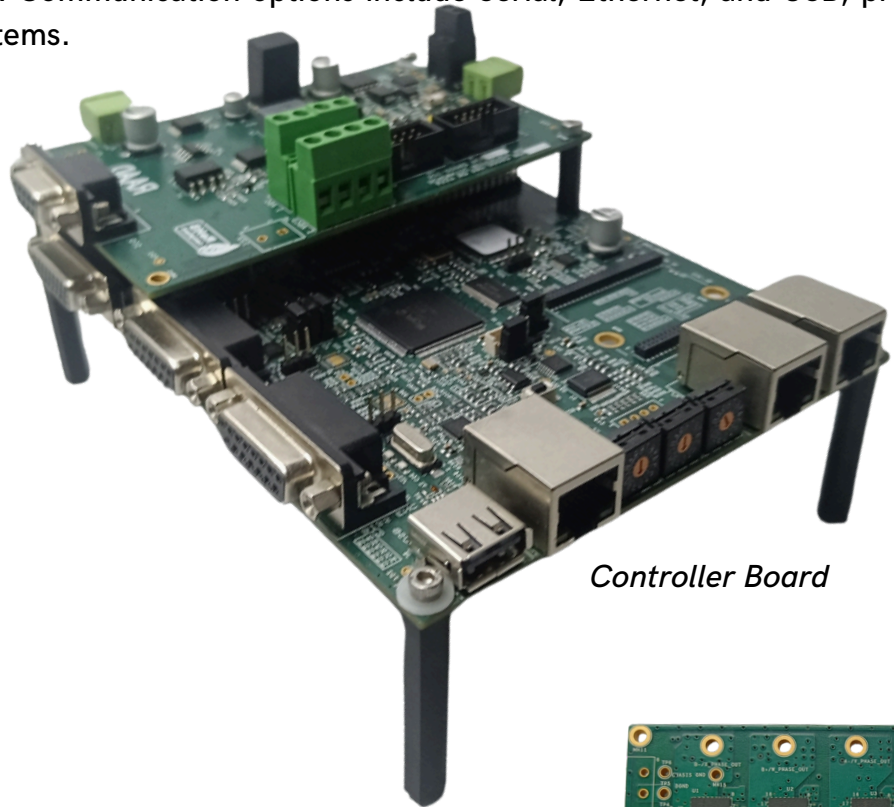
STEP/DIR AND PWM outputs will be inactive when STO is enabled.

Dimensions (L x W x H)

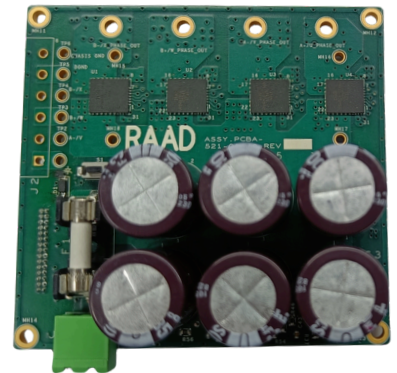
120 mm x 130mm x 62 mm

Power

24 V, 48 V, 56 V and 200 V up to 1.5 KW



Controller Board



Amplifier Board

Model Number Reference for Single Axis			
Model	VDC	Ic	Ip
R1X- 24V - 4 - 8	12V - 24V	4	8
R1X - 56V -10 - 20	14V - 56V	10	20
R1X- 100V - 5 - 10	48V - 100V	5	10
R1X - 200V - 5 - 10	48V - 200V	5	10

*Contact RAAD Sales Support to discuss your specific requirements and to obtain the latest model list.

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