

DIVA Automation

Innovation in Motion

SuprMotrV9

Single-axis DC
Motor Controller

Original release, September 15, 2007

Description

The SuprMotrV9 is a member of the SuprMotr® family of controllers, developed by DIVA Automation, over a period of several years. It is the ninth in a series of variations on a theme. All SuprMotr® products derive from a common base, with many variations in package style, size, motor drive and so on.

Unique characteristics

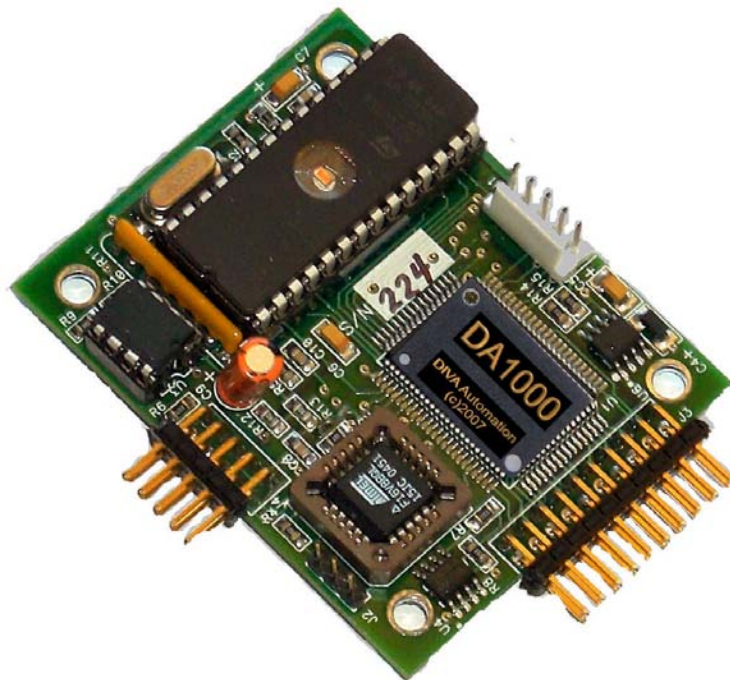
- **Small size:** 2.0" x 2.5" overall
- **22** general-purpose **I/O** lines, including eight, 8-bit **A/D** conversion channels.
- **Operates from a single 9-12 V** power supply @ < **100 mA** (logic supply), plus the motor current, which is zero at rest
- Motor drive is **1A**, maximum, suitable for motors up to 10 W.
- Permanent storage for operating programs and setup parameters.
- Optical interruptor supported for **reference position input**. May be used as a program interrupt.

Standard features

- **Complete, self-contained, stand-alone** servo controller .
- Controls one DC motor, with **incremental encoder position feedback**.
- **Simultaneous control** of position, velocity and torque.
- **Output protected** against shorted load and overtemperature.

- **On-board trapezoidal trajectory** generator with asymptotic homing mode.
- **Programmable gain** characteristics. 1 KHz update rate.
- **High speed multi-drop RS-232** communications for coordinated control of up to 16 axes through a single RS-232 channel.
- **Low power:** Less than one Watt internal dissipation.
- On board command interpreter with **over 50 commands**, including **fully-integrated** support for the general purpose **analog** and **digital I/O** lines.

- **Visual BASIC** and **LabView** user interface and communications terminals included.
- **Low cost.**
- **Easy to use.**
- **32-bit precision** for position, velocity and acceleration registers.
- **Programmable limits** for allowable error.
- **Stored program** operation.
- **Perpetual guarantee.**
- **Dual limit switch and reference switch** support.



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