

# DIVA Automation

*Innovation in Motion*

**SuprAmpD<sup>®</sup>**

**PWM Amplifier for  
Motion control**

Original release, January 17, 2007

## Description

The **Supr-** family of products from DIVA Automation are characterized by their incorporation of related functions normally required in typical applications of the product, but not normally included in competitive products. Our **SuprMotr** controllers, for instance, incorporate uncommitted digital and analog I/O lines, so that a separate assembly is not required in many applications. This feature not only reduces cost, but simplifies integration of the motion with other parameters and signals.

The **SuprAmpD** is a PWM amplifier intended primarily for use in driving small DC motors. Its "**Supr**" feature consists of optically coupled inputs from **limit switches** to prevent accidental motion beyond safe physical operating limits. The active state of the limit switches may be modified by on-board jumpers. When a limit switch is activated, no further drive is possible in the direction of that switch. However, drive in the opposite direction is unaffected.

It accepts TTL-level PWM magnitude and direction inputs to drive motors bidirectionally.

Four bi-color LEDs indicate signal activity.

A line receiver converts differential encoder signals to single ended.

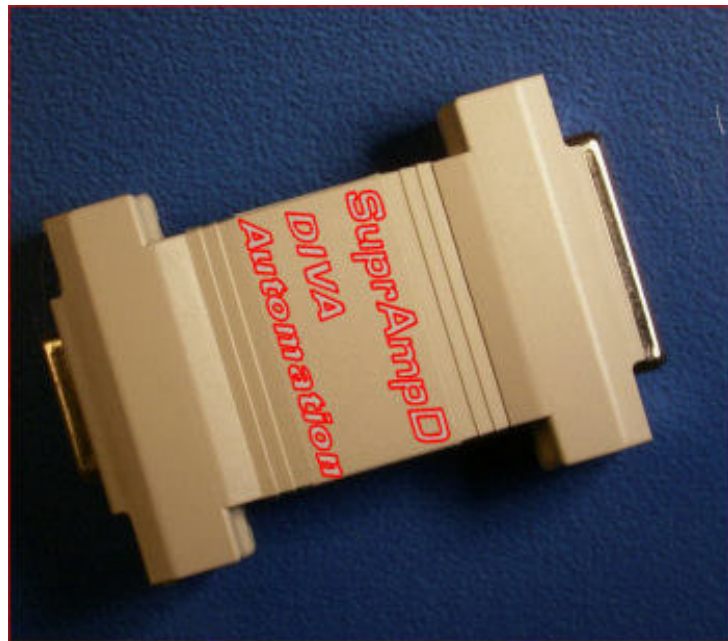
A companion product, the **SuprAmpA**, performs a similar function using an analog driver with lower efficiency, but is recommended for applications that are sensitive to electrical noise.

## Features

- **Small size**--2" x 2.75"
- **Wide bandwidth**--up to 100 KHz switching frequency
- **High efficiency**--3W internal dissipation when delivering **75W** to motor at 24V.
- **Optically isolated Limit switch** support
- **Standard input:** PWM magnitude and direction
- **High current**--**3 Amps**, continuous, 6 Amps, peak.
- **High voltage**--+12 to +55 V
- **Thermal Shutdown**
- **Shorted output protection**
- **Current limited**--adjustable
- **LED** status indicators
- **-40° C to +125° C.**
- **Low power**--25 mA quiescent
- **Differential line receiver** for encoder signals

**Low cost--\$99**

OEM discounts available.



**DIVA Automation**  
**sales@TheMotionStore.com**

Fitting your budget and your needs with precision.  
**+1-800-984-DIVA**