

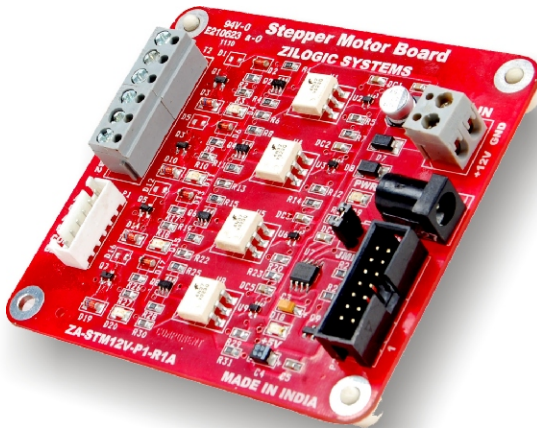
# DC Motor Board

## ZA-DCM12V-P1

### Overview

The DC Motor Board is a variable speed controller for 12 V brushed DC motors at up to 1.0 Amp continuous current. This board offers a high degree of isolation with the use of high speed 10MBit/s Logic Gate opto-isolators for isolation between low voltage control side and high voltage motor side.

B.R.E.A.K



The heart of the board is Si9986, it is an integrated, buffered H-bridge with TTL compatible inputs and the capability of delivering a continuous 1.0Amp at 12 V with switching rates up to 200 kHz. By supporting high-frequency pulse width modulation (PWM), the DC motor can run smoothly and quietly over a wide speed range. This board includes two LED's to show the PWM input signal states. Heavy duty screw terminal

blocks is provided for easy motor connection.

The TTL compatible inputs allows this board work with most microcontrollers and control systems. The Standard 0.1" FRC headers are provided for easy connection to other control systems. The board can be used for prototype development by hobbyists and engineers. The board is also suitable for teaching and learning DC Motor control programming.

### Features:

- Controls brushed 12 V DC motors up to 1.0A continuous
- High speed opto-isolated inputs
- 200 kHz Switching Rate
- PWM input signal state indication by LEDs
- Heavy duty screw terminal blocks for motor connection
- TTL compatible inputs
- Standard 0.1" FRC header for connection to control logic/MCU
- Ready to go with Zilogic's mother boards.

### Ordering Information

| Product Number  | Description    |
|-----------------|----------------|
| ZA-DCM2V-P1-R1A | DC Motor Board |

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