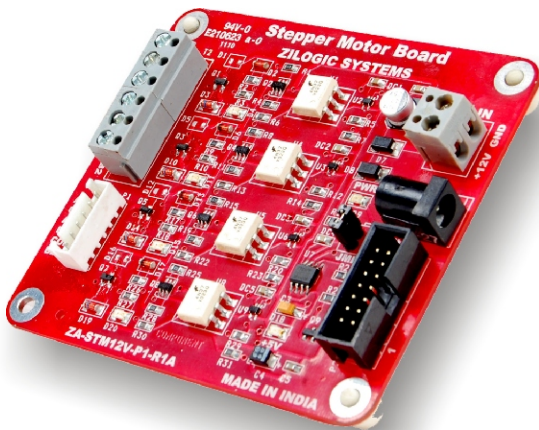


Stepper Motor Board

ZA-STM12V-P1

Overview

The Stepper Motor Board is designed to provide the stepper motor Controller interface with the opto isolation, to the CPU/MCU development boards. The board incorporates N-channel TrenchMOS logic level FET PMV45EN from NXP Semiconductors to drive high current with fast switching action with MOSFET driver PMD9002D also from NXP.



This board offers a high degree of isolation with the use of high speed opto-isolators for isolation between low voltage control side and high voltage motor drive side. It also comes with series of LEDs to indicate each phase of the stepper signals. Power-on delay circuit is provided to give sufficient time to MCU/Control logic to initialise the stepper input signals to known state thereby avoiding momentary glitches on the motor circuit.

Heavy duty screw terminal blocks for motor lines and also a standard 6 PIN header is provided for easy connection. The TTL compatible inputs allows this board work with most micro-controllers and control systems. Standard 0.1" FRC headers are provided for easy connection to other control systems. The board can be used for prototype development by hobbyists, engineers and students. The Stepper Motor Board makes the code development for controlling a stepper motor is a fun.

Features:

- Supports 12V/1Amp Stepper motor
- MOSFET output drive
- Resistor-Equipped Transistor as MOSFET driver Terminal blocks for motor connection
- High Speed Opto-isolated inputs
- LED Indication for each stepper phase.
- TTL compatible inputs
- 0.1" FRC header for external connection

Ordering Information

Product Number	Description
ZA-STM12V-P1-R1A	Stepper Motor Board

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