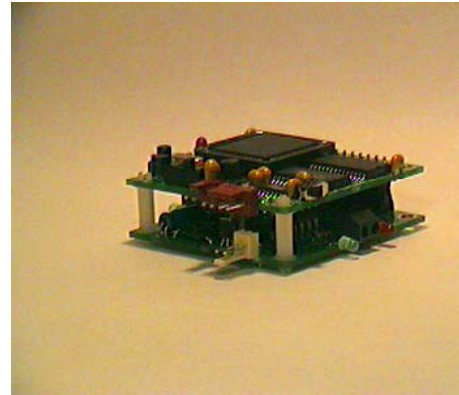
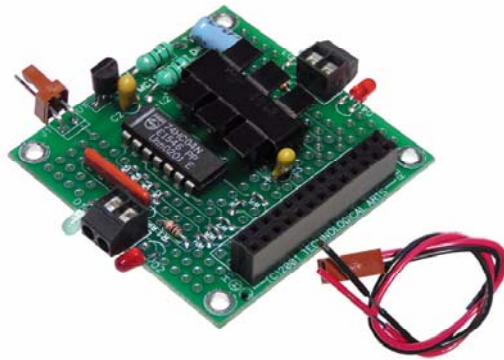


TECHNOLOGICAL ARTS

MicroCore-11™ 2-Channel Motor Driver Module



The MicroCore-11™ Motor Driver Module is one of a range of versatile, low-cost application cards designed for the MicroCore-11™ 68HC11 microcontroller module.

The motor driver module provides a good mix of features, low cost, and flexibility that make it a good choice in applications incorporating miniature DC or stepper motors. Two channels are provided, supporting either two DC motors or one bi-phase stepper motor. A second module can be added to double the number of available channels.

A prototyping area is provided for user circuitry, such as IR emitters, IR sensors, and bumper switch circuits. In addition, there are four spare logic inverters available to the user. The devices mentioned are typically used to implement micro mouse robot applications.

FEATURES:

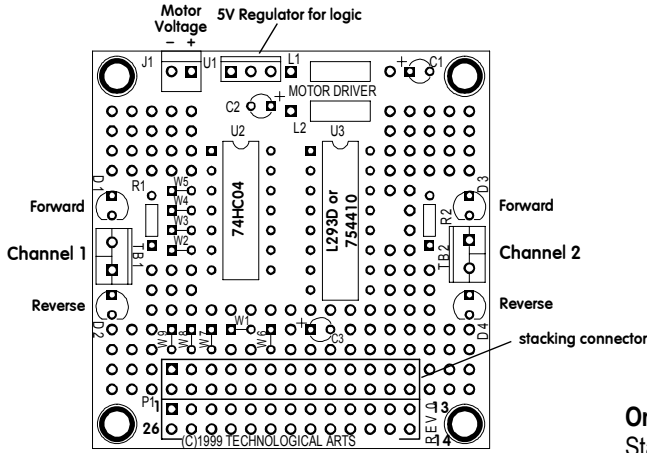
- 2 channels, up to 600 mA/channel
- up to 1A per channel on high-current version
- heatsinked driver chip for maximum current
- built-in diode protection
- separate motor supply voltage connector
- works with motor voltages from 5V to 36V
- indicator LEDs for direction and status
- prototyping area for user circuits
- screw-terminal blocks for motor connections
- four spare logic inverters for user applications
- modules cascable for additional channels
- jumper-selectable control port pin assignments
- stackable via dual-connector arrangement
- on-board 5V low-dropout regulator
- inductor-isolated logic supply can also power MicroCore-11™ MCU module (jumperable)
- standard 26-pin I/O connector pattern
- available with several connector options
- stackable vertically or horizontally
- can be used with MicroCore-11™ prototyping cards and backplanes
- compact 2" by 2" modular design
- convenient corner mounting holes

www.technologicalarts.com

Technological
Arts

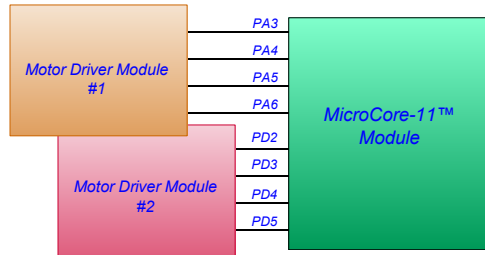
MicroCore-11 Dual Motor Driver Module

Mechanical Layout & Pin Numbering



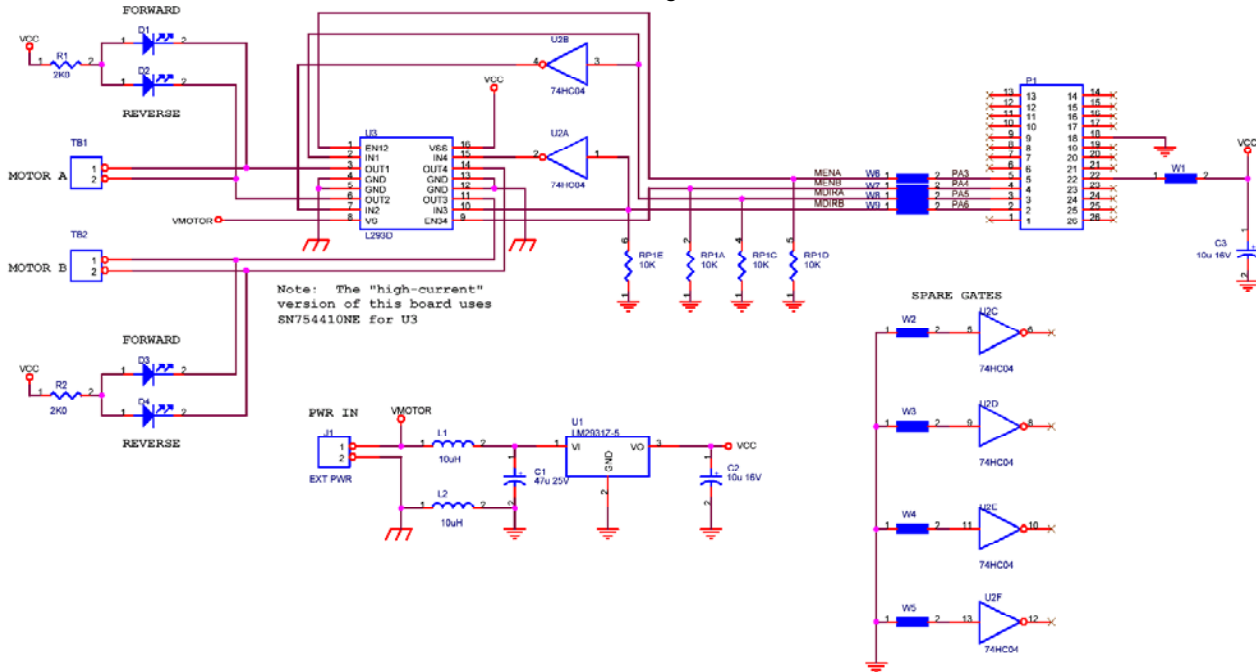
Note:
Square pad is Pin 1, all components

Example of 4-Channel Arrangement



Ordering Information (fill in connector option code):
Standard (600mA per channel): #MC11MDM-□
High-current (1A per channel): #MC11MDMH-□

Schematic Diagram



Standard Connector Options

