DFR0513 2 x 3A PPM DC Motor Driver

DFR0513

Product Overview

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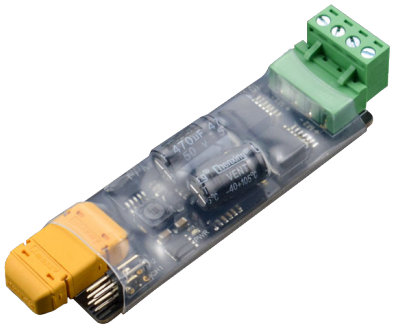
For the most up-to-date information, visit www.mouser.com or the supplier's website.

Description



DFRobot DFR0513 2 x 3A Pulse Position Modulation (PPM) DC Motor Driver is a special PPM signal motor controller for remote control of model aircrafts and fighting robots. This motor driver is controlled by an RC transmitter. The DFR0513 motor driver converts the PPM signal to the motor speed and direction control signal. This 2-way independent motor driver features two signal receiving channels (CH1 and CH2) and two motor channels (M1 and M2) on the board. Each signal input channel uses a standard 50Hz PPM signal with a duty cycle of 5% to 10%. The motor driver supports 7V to 12V wide range power input, the maximum input voltage is 40V, and the continuous current of each channel is 3A. The allowable peak current is 6A, so when the current is over 6A, the driver chip goes into a protected state. Once the chip is in the protected state, the user must repower the chip to start again.

Features

- 2-way independent motor drive
- Controlled by PPM signal and compatible with servo control signal
- Overload protection
- STM8S105 master chip
- TLE5205 driver chip
- Designed for aeromodelling and fighting robots

Specifications

- 5V logic power (compatible with 3.3V controller)
- 6A peak current protection
- 7V to 12V wide input voltage range
- Drive signal:
  - 1000μs to 1469μs forward decrement
  - 1470μs to 1560μs stop domain
  - 1561μs to 2000μs reverse increase
- Supports independent two-channel motor drive
- 35g weight
- 90mm x 30mm dimension

Mouser Part Number

View Part

To learn more, visit https://www.mouser.com/new/dfrobot/dfrobot-dfr0513-motor-driver/