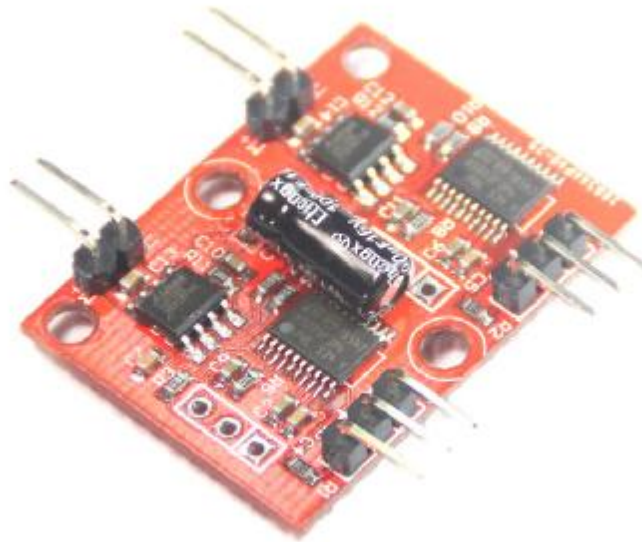


FEETECH 2CH Servo Motor Controller for DC Motor

FT-SMC-2CH



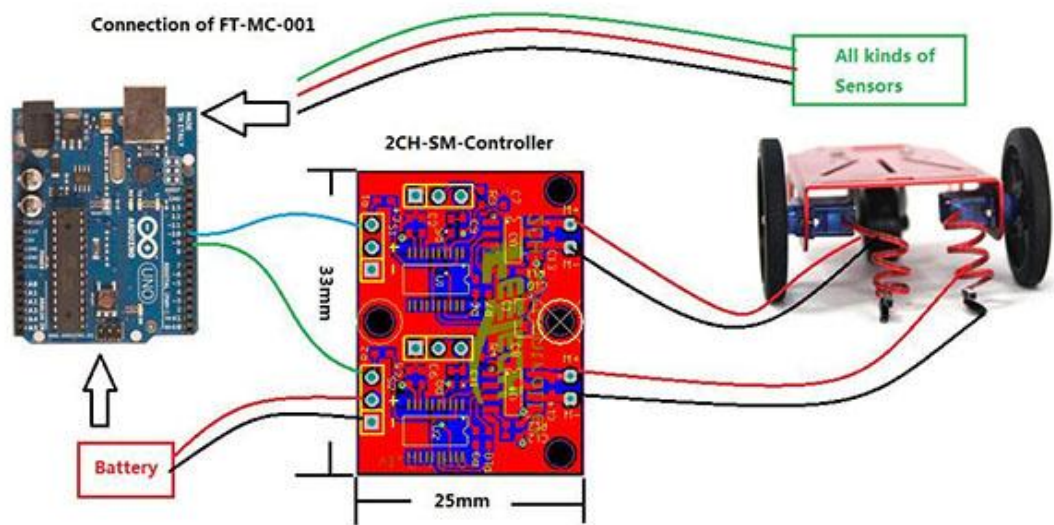
Features

- Can be reprogram by FEETECH programmer
- Easy to control 2CH DC motor
- Control DC motor to bidirectional continuous rotation
- The speed is linear response to PWM
- Accepts four mounting screws
- Easy to interface with any Arduino microcontroller or PWM-capable device
- Weighs only 3.5 g
- Apply to kinds of small mobile platform robot

Specification

- Weight: 3.5g
- Dimension (L*W*H): 34mm * 25mm * 7.5mm
- Controller: STM8F003F3P6
- Working Voltage Range: 4V~9V (2CH + and – connect together)
- Recommended Voltage: 6V
- IDLE Current: 10Ma
- 1CH Continuous Load Current: 1.3A
- Working Temperature: -5°C~60°C

Connection Diagram:



Communication Protocol

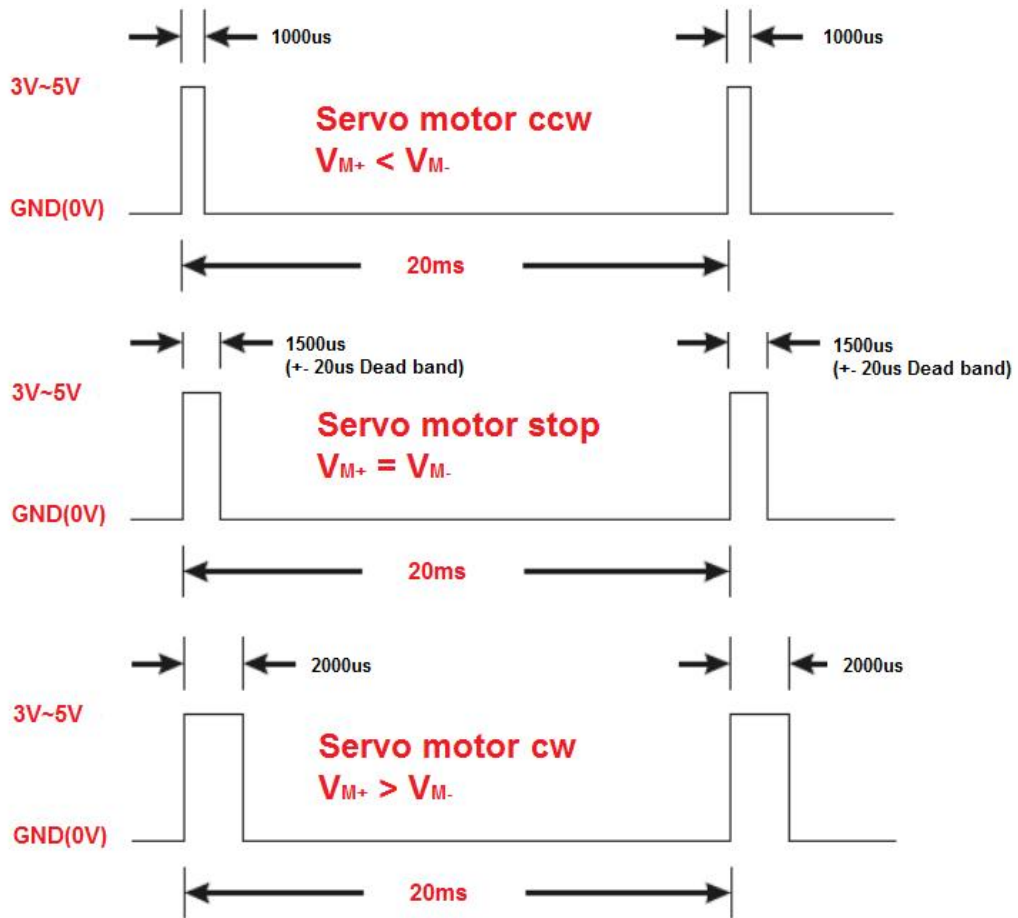
The Servo motor controller is controlled through pulse width modulation.

Rotational speed and direction are determined by the duration of a high pulse, in the 1000us–2000us range.

In order for smooth rotation, the servo needs a 20 ms pause between pulses.

As the length of the pulse decreases from 1500us, the servo will gradually rotate faster in the counter-clockwise direction.

Likewise, as the length of the pulse increases from 1500us, the servo will gradually rotate faster in the clockwise direction, as can be seen in the figure below:



FT-MSC-2CH Control curve

