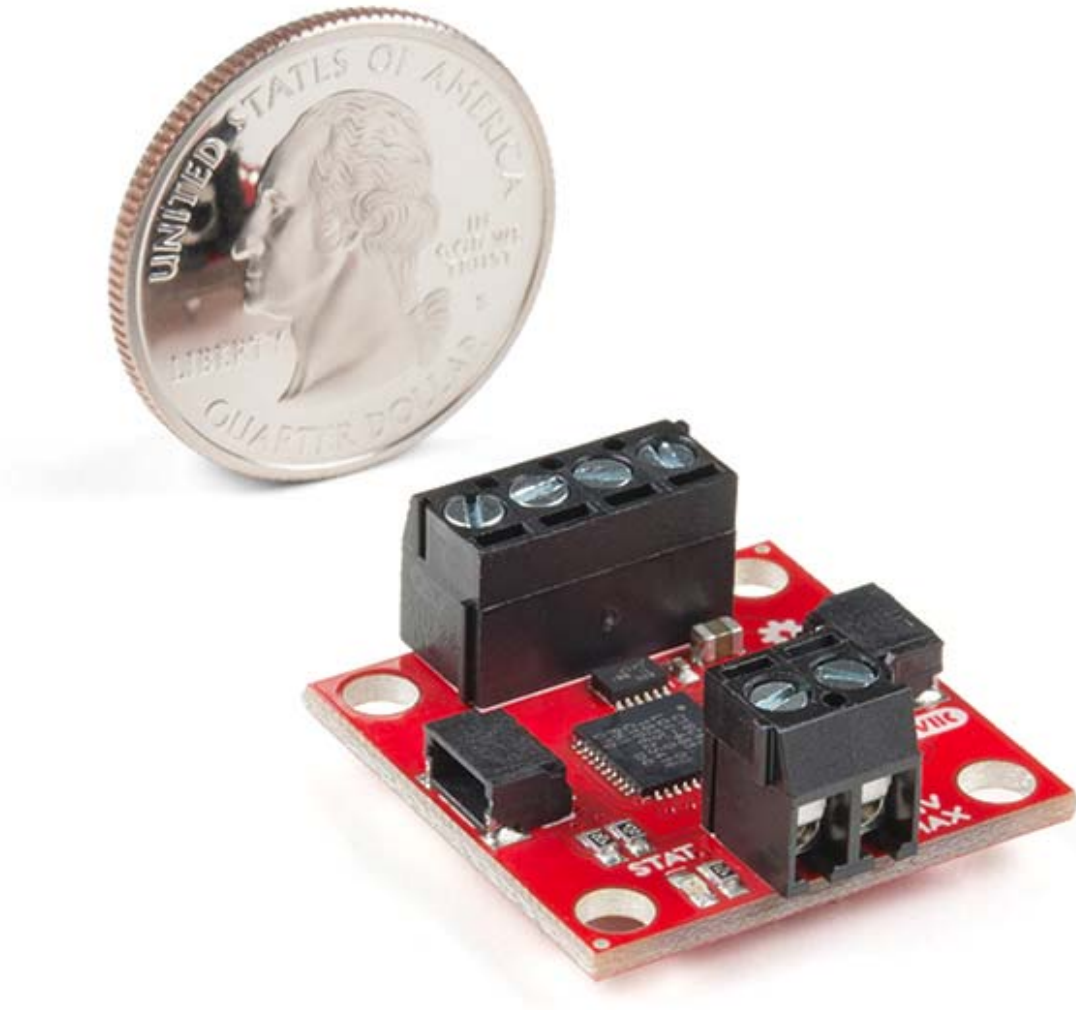# SparkFun Qwiic Motor Driver

ROB-15451

The SparkFun Qwiic Motor Driver takes all the great features of the Serial Controlled Motor Driver (SCMD) and miniaturizes them, adding Qwiic ports for plug and play functionality. Boasting the same 4245 PSOC and 2-channel motor ports as the SCMD, the SparkFun Qwiic Motor Driver is designed to communicate over I²C to make setting up your next robotic project as fast and easy as possible! Utilizing our handy Qwiic system and screw terminals for motor and power hook-up, no soldering is required to connect it to the rest of your system.
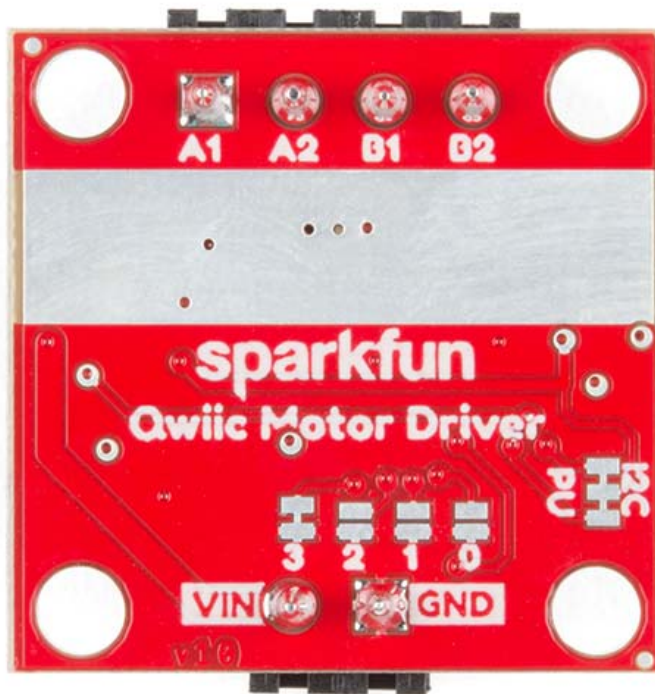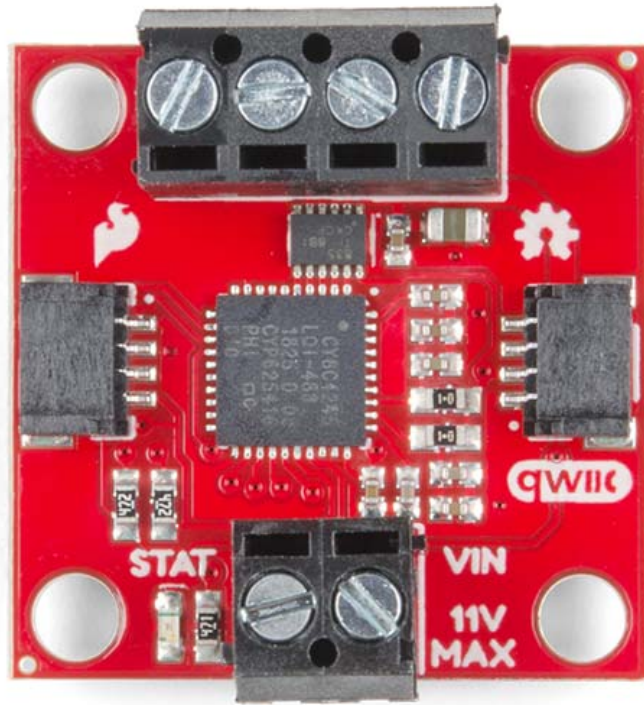
With 1.2A steady state drive per channel (1.5A peak) and 127 levels of DC drive strength, this little Qwiic board is perfect for your small DC motor driver needs. Since the Qwiic Motor Driver is a 3.3V logic device, you'll need to use a logic level converter to interface to 5V.

The SparkFun Qwiic Connect System is an ecosystem of I²C sensors, actuators, shields and cables that make prototyping faster and less prone to error. All Qwiic-enabled boards use a common 1mm pitch, 4-pin JST connector. This reduces the amount of required PCB space, and polarized connections mean you can't hook it up wrong.

Features

- 1.5 A peak drive per channel, 1.2 A steady state
- Operates from **3 to 11 Volts** with 12V absolute max
- **3.3V** default VCC and logic
- 127 levels of DC drive strength.
- Controllable by I²C or TTL UART signals
- Direction inversion on a per motor basis
- Global Drive enable
- Exposed small heat sink shape
- Several I²C addresses, default UART bauds available
- Adjustable I²C Address: 0x5D Default
- 2x Qwiic Connectors

https://www.sparkfun.com/products/15451/9-24-19