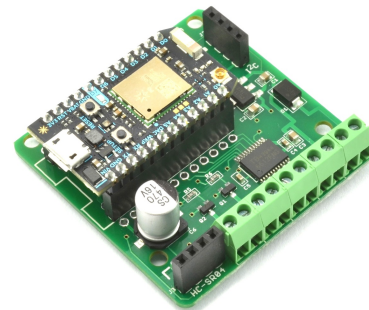
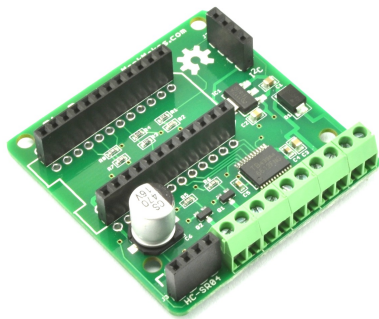


## DATASHEET PhoBot v1.0 revision f

A simple to use motor shield for the Spark Core and Photon. This board is designed to simplify the process of making small roving robots using a Photon or Spark Core.

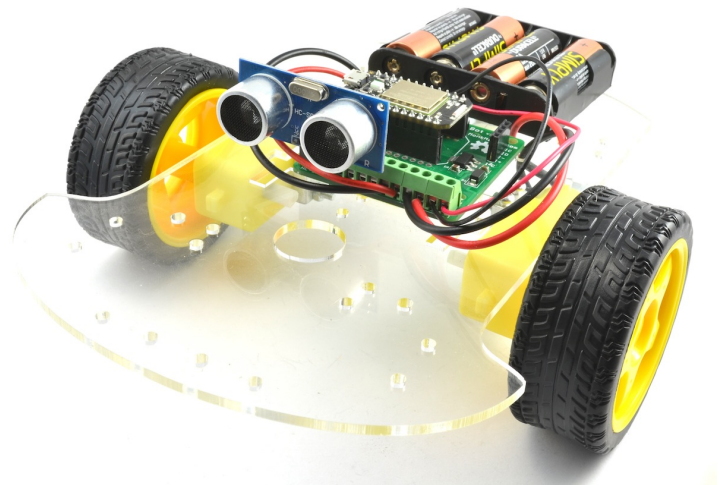
- Dual bi-directional motor control using TB6612FNG dual H-bridge
- Dual open drain 2A MOSFET outputs
- Socket for HC-SR04
- Socket for 5V I2C Interface
- Provides 5V regulated power to Photon or Core



## ELECTRICAL CHARACTERISTICS

For characteristics of the bi-directional motor driver outputs M3 and M4 see the TB6612FNG datasheet.

Parameter	Value	Units
Max. Input voltage	12	V
Min. Input voltage	6	V
Max. current M1 and M2	2	A
Max. current I2C 5V supply	80	mA



## APPLICATION NOTES

This shield is designed to be used with low cost robot chassis to make simple autonomous robots such as the one shown to the right.

The board has an accompanying C library that can be found on GitHub here: <https://github.com/simonmonk/PhoBot>

## CONTACT

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