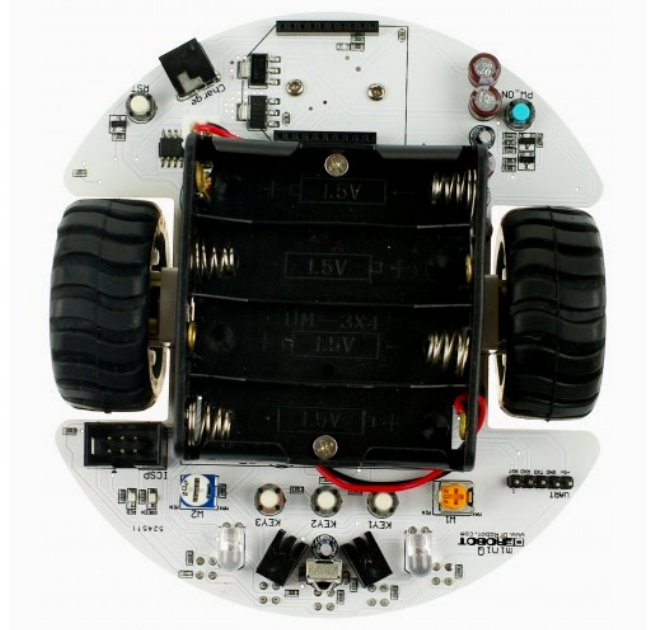


# DFROBOT

## MiniQ 2WD Complete Kit (Based on Arduino)

### Product Code: ROB0081



#### Introduction

2WD MiniQ mobile robot is especially designed for learning purpose like 4WD MiniQ mobile robot. It also comes fully assembled and all you need is a PC with Arduino IDE and 4xAA battery.

It is powered by most popular Atmega328P which is fully compatible with Arduino.

The 2WD MiniQ has two wheels build-in encoders. So you could easily control the speed of the robot. 2 infrared sensors make it possible for you to build a line tracing robot. 2 infrared transmitters and 1 infrared receiver can help you to finish simple obstacle avoidance and the IR remote control. 1 buzzer could let the robot sing some funny songs when running.

Compared with the 4WD MiniQ, we improve the communication function on the 2WD MiniQ platform by increasing a Xbee slot. Make it possible for you to achieve a wireless communication or wireless programming for your robot.

To perform wireless programming, you will need a pair of our [WPM](#) modules.

#### Applications

- line tracing robot
- Simple obstacle avoidance
- Multi-Robot system

#### Specification

- 2 DC Motor Driven
- Max Speed:79cm/s
- Atmega 328P microcontroller
- Arduino Compatible
- Compatible with xbee module and wireless programming module

- Size: 110x123x42 mm

#### Shipping List

- 2WD MiniQ platform (1 unit)
- IR remote control (1 unit)
- Xbee adapter (1 unit)
- Mini usb cable (1 unit)

#### Documents(add links)

- [Schematic](#)
- [Sample code](#)