



Modular Mobile Robot

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## Components provided in the Module

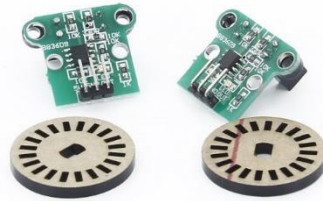
2 x Motors



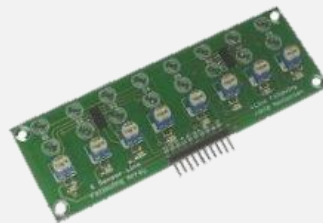
2 x Wheels



2 x Encoders



1 x Line Following Sensor



1 x Ultrasonic Sensor



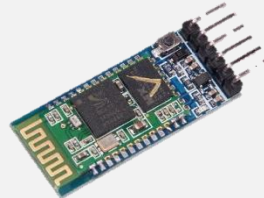
1 x 8 Battery Holder



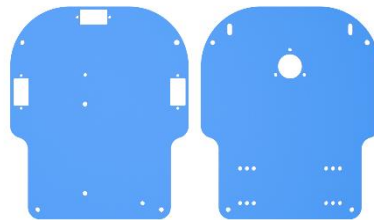
1 x Micro Servo



1 x Bluetooth (HC05)



1 x Robot Chassis



1 x Caster



1 x Ultrasonic Holder



4 x 40mm Standoffs



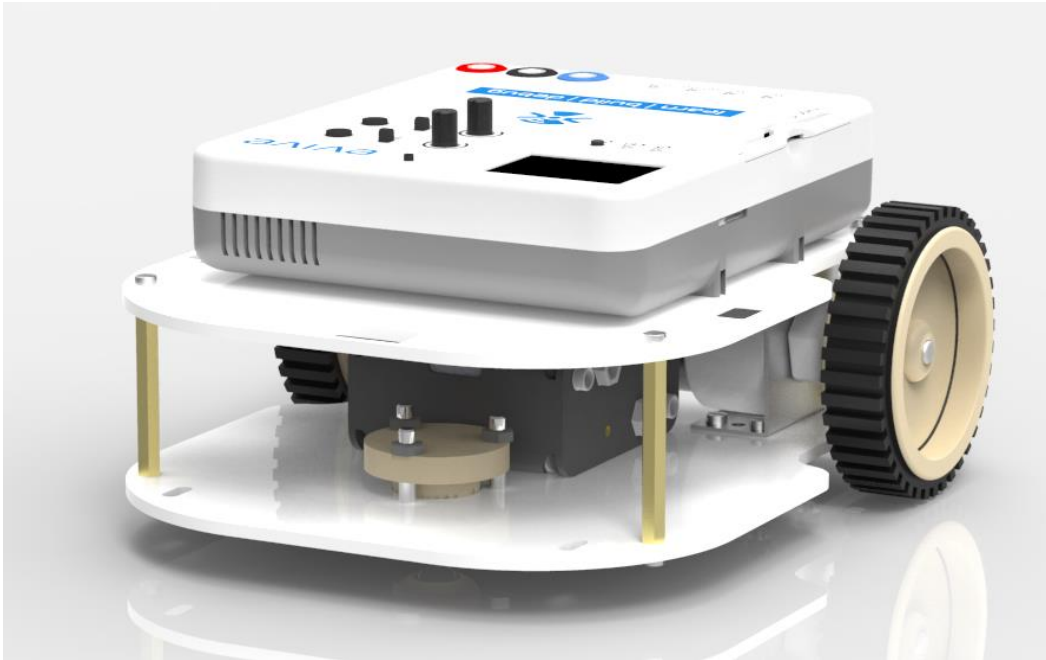
Fasteners



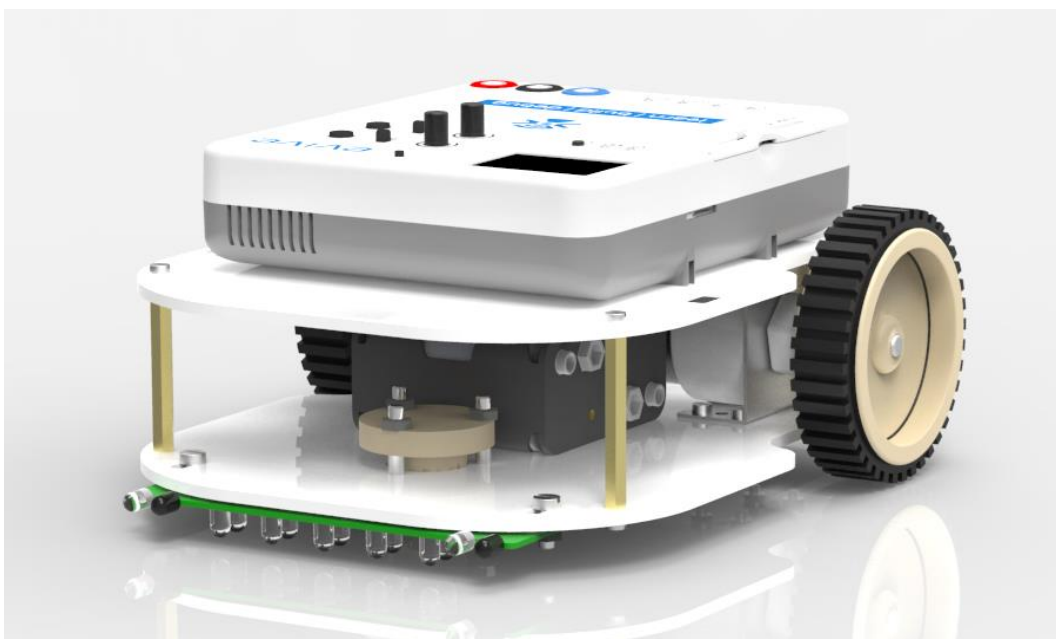
## Different Configurations of Modular Robot

With this robotics kit you can make different types of differential drive robots based on your application, like remote controlled robot, line following robot, obstacle avoiding robot and wall following robot. A few configurations are described here

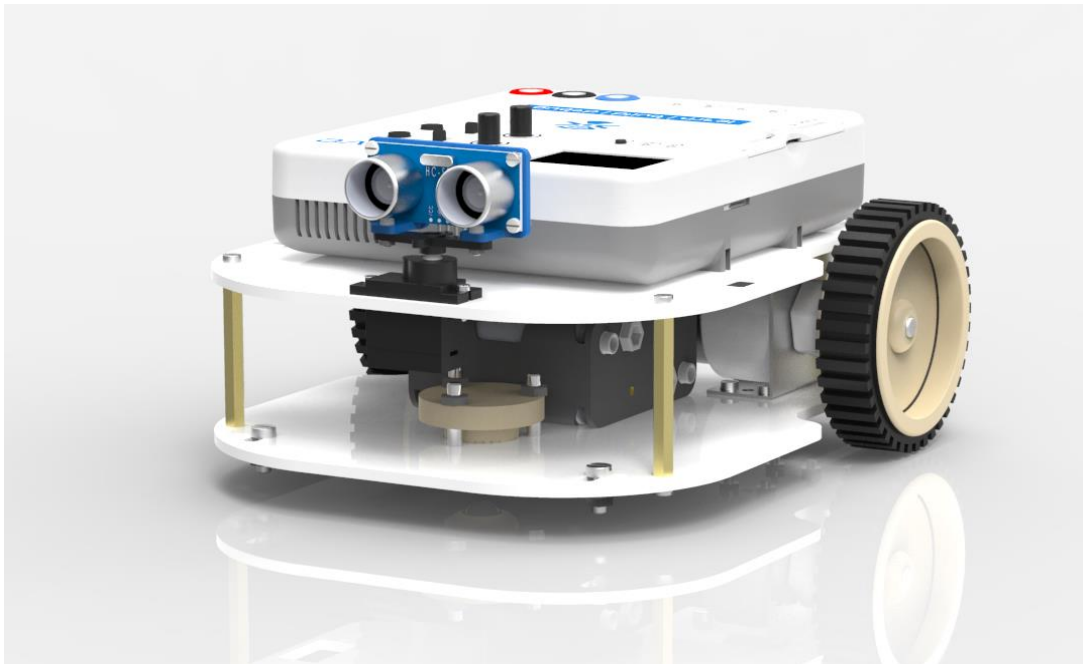
- Remote Controlled Robot: With Bluetooth attached to evive, you can easily control your robot with any smartphone.



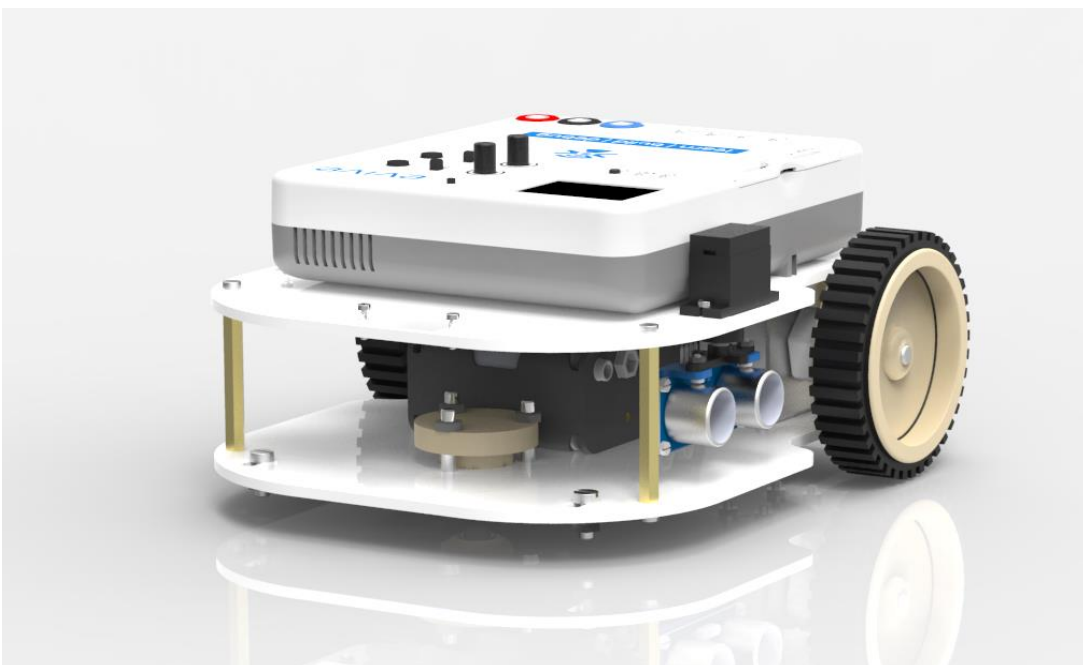
- Line Following Robot: With IR sensor array, your robot can turn into a line following robot.



- Obstacle avoiding robot: With ultrasonic distance sensor attached to a micro servo in the front section of the robot, you can scan the 2D plane in front of robot for obstacle, and move to obstacle-free area autonomously.



- Wall Following Robot: Servo mounting are also given on both sides of the robot. With this configuration you can follow a wall.



You can find the instructables (tutorials) of some of the robot configurations in the links:

- Making a Modular Differential Drive Robot:  
<http://www.instructables.com/id/Making-a-Modular-Differential-Drive-Robot/>
- Obstacle avoidance using ultrasonic with evive:  
<http://www.instructables.com/id/Obstacle-Avoiding-Robot-Using-Ultrasonic-With-Eviv/>

We will be soon adding more tutorials and code for all other configurations.