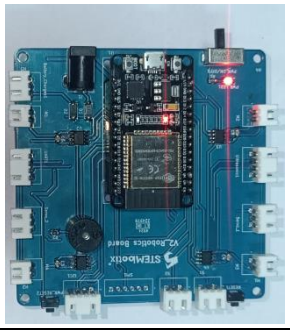
Components Specifications

Component Name	Qty.	Image	Description
Robotics Baseboard with Onboard Power Management	1		Extends the functionality of a microcontroller or development board by adding extra connectors and interfaces for additional modules. Simplifies integration of multiple components into a project.
HC-SR04 Ultrasonic Sensor Module	1		An ultrasonic sensor measures distance by emitting and reflecting ultrasonic waves. Used for obstacle detection and distance measurement.
IR Sensor	2		An IR sensor detects infrared light to sense objects and measure proximity or distance by analyzing reflected infrared waves.
Servo Motor	2		A servo motor provides precise control of angular position, velocity, and acceleration, used in robotics and automation systems.
70mm Diameter Tire Wheels	4		Durable and sturdy wheels designed for smooth and efficient robot movement.

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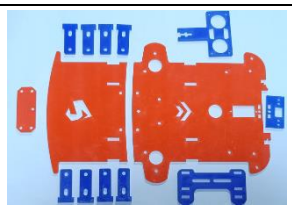
200 RPM Double Shaft BO Geared Motors	4		High-speed geared motors perfect for smooth and efficient robot movement.
Universal Wheel	1		Adds multi-directional stability, enabling sharp and efficient turns.
Connection Cable with Baseboard and Sensor	-		Ensures easy and secure connections between sensors and the baseboard. The JST connector is a small, lightweight, and reliable electrical connector commonly used in electronics for connecting wires to circuit boards.
Chassis Kit for Robot Car	1		A robust and customizable chassis for building and assembling robot cars.
Screws, Nuts, and Screwdriver Set	-		Complete set of tools for secure and easy assembly of your robot.
Flame Sensor	1		A flame sensor detects the presence of fire by measuring the intensity of infrared radiation emitted by flames.
Light Sensor	2		A light sensor measures light intensity. Used to detect light levels and adjust lighting.
Li-ion Rechargeable Battery (5000mAh) with Charger	-		A temperature sensor measures the temperature of an environment or object, useful in climate control and temperature monitoring.

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