

NEW PRODUCT

ARDUINO WITH MOTOR DRIVER SHEILD V.1

ANALOG SENSOR INTERFACE: 6 ANALOG INPUT PORTS (A0-A5) WITH POWER (5V), GND, AND SIGNAL CONNECTOR

ULTRASONIC SENSOR INTERFACE: 3 DEDICATED ULTRASONIC SENSOR PORTS

SERVO MOTOR SUPPORT: 5 DEDICATED SERVO PORTS

DIGITAL SENSOR INTERFACE: DIGITAL I/O HEADERS AVAILABLE FOR ADDITIONAL SENSORS AND MODULES

I2C COMMUNICATION INTERFACE DEDICATED SDA/SCL (I2C)

UART / SERIAL INTERFACE: TX/RX CONNECTOR F

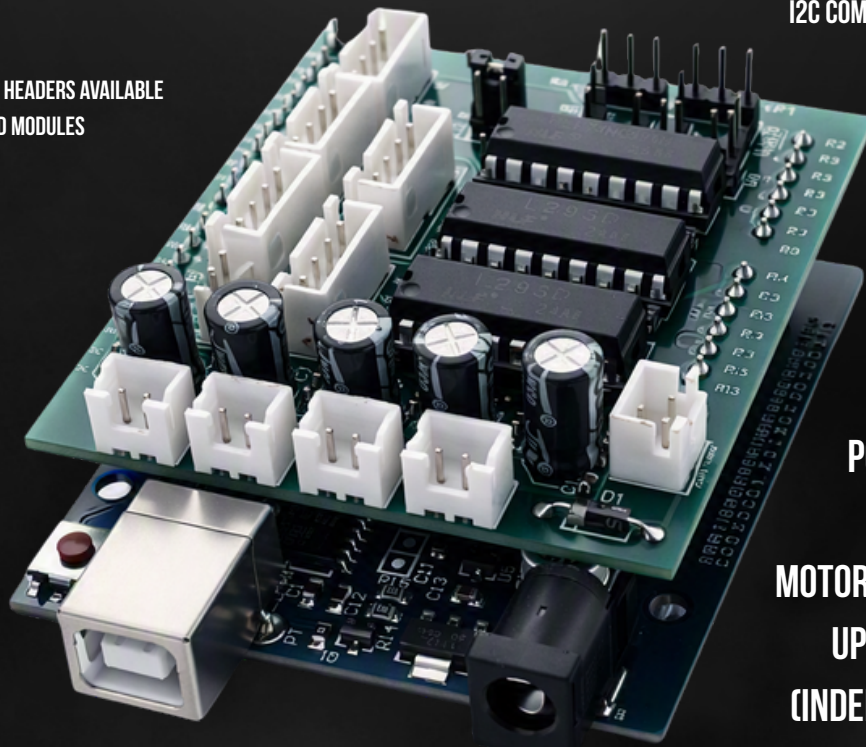
POWER CONNECTOR

MOTOR SUPPORT: SUPPORTS UP TO 4 DC MOTORS (INDEPENDENT CONTROL)

DC ARDUINO POWER CONNECTOR

PROGRAMMING SUPPORT

1. ARDUINO IDE COMPATIBLE
2. C / C++ PROGRAMMING
3. USB SERIAL PROGRAMMING
4. SUPPORTS ARDUINO LIBRARIES
5. PLUG-AND-PLAY DEVELOPMENT

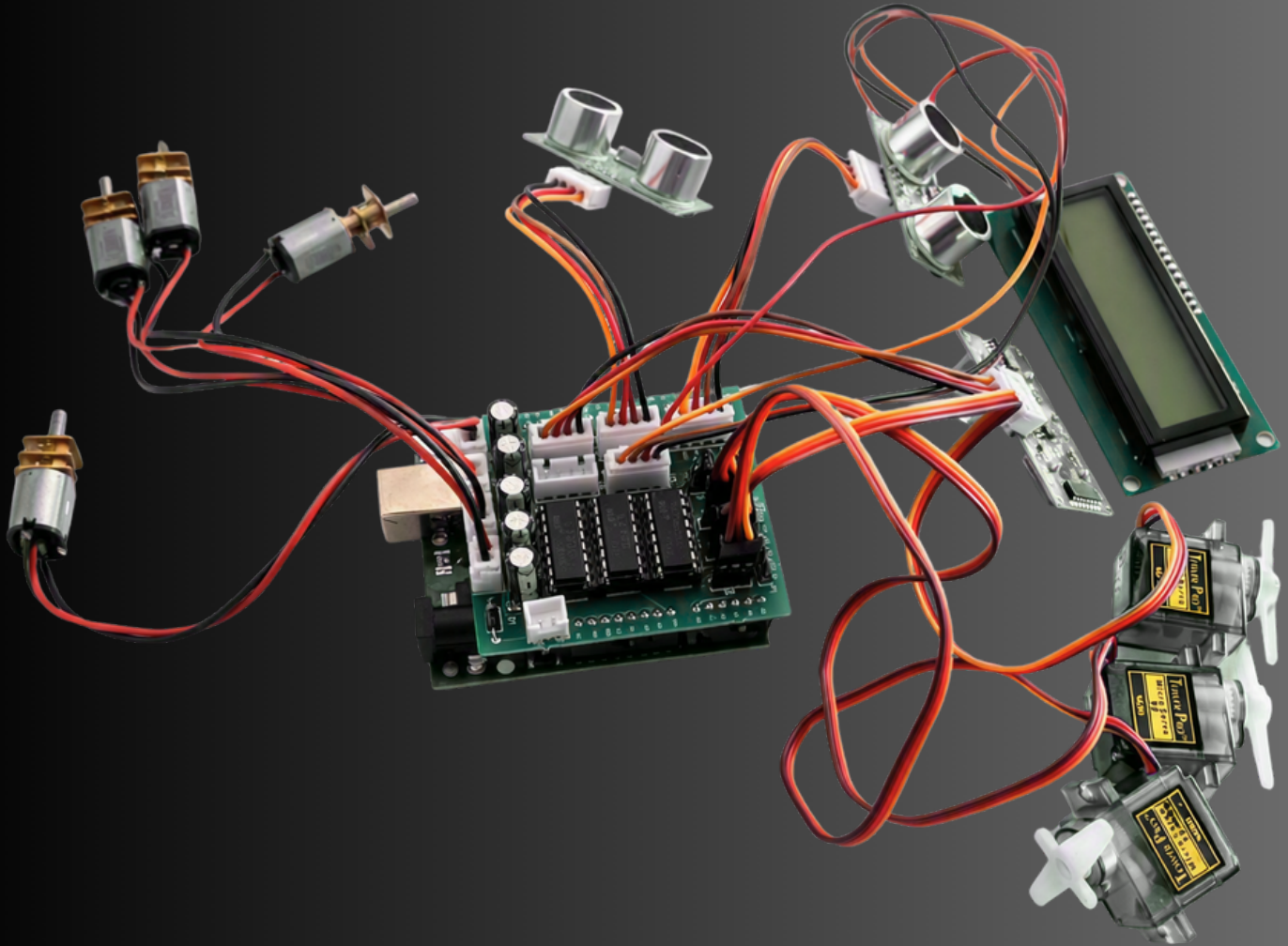


Arduino Uno Robotics Shield Specifications

1. Board Compatibility: Arduino Uno R3 and compatible Uno boards
2. Motor Support: Supports up to 4 DC motors (independent control)
3. Ultrasonic Sensor Interface: 3 dedicated ultrasonic sensor ports (VCC, GND, TRIG, ECHO)
4. Analog Sensor Interface: 6 analog input ports (A0-A5) with Power (5V), GND, and Signal connectors
5. Digital Sensor Interface: Digital I/O headers available for additional sensors and modules
6. Servo Motor Support: 5 dedicated servo ports with 5V, GND, and Signal connections
7. I2C Communication Interface: Dedicated SDA/SCL (I2C) connector for displays, IMUs, EEPROMs, and other I2C devices
8. UART / Serial Interface: TX/RX connector for Bluetooth, Wi-Fi, GPS, and serial communication modules
9. Power Input: 5V regulated supply through Arduino Uno; external motor power supported
10. Expansion Capability: Compatible with IR sensors, line sensors, gas sensors, flame sensors, ToF sensors, Bluetooth modules, Wi-Fi modules, relays, buzzers, LEDs, and other 5V Arduino-compatible sensors
11. Operating Voltage: 5V DC
12. Form Factor: Arduino Uno R3 Shield (stackable design)
13. Applications: Robotics, automation, IoT, educational projects, and rapid prototyping

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Arduino Uno Robotics Shield Specifications

BoticShield V1

BoticShield V1 is a compact and user-friendly Arduino Uno compatible robotics shield designed for easy integration of motors, sensors, and communication modules. It supports 4 DC motors, 3 ultrasonic sensors, 5 servo motors, 6 analog sensor ports, I2C, and UART interfaces. Using the BoticShieldV1.h library, all connected components can be controlled through simple functions, reducing wiring complexity and making robotics programming faster, easier, and beginner-friendly