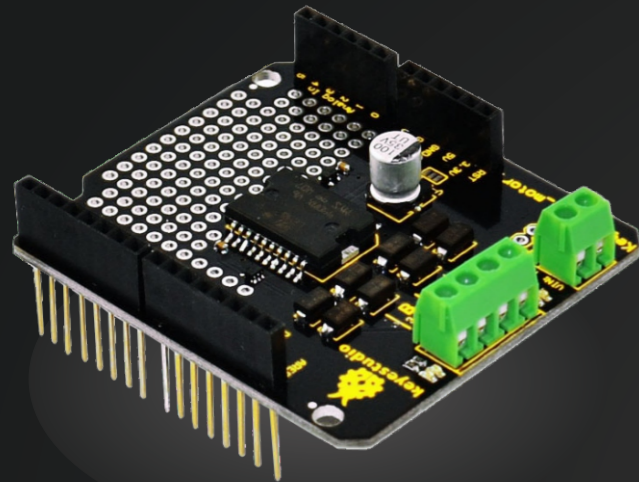


L298P



SKU:KS0007

Introduction

L298P Shield DC motor driver adopts the L298P driver chip which is exclusively made for large-power motor. It can drive 2 DC motors directly with a drive current reaching 2A. The motor output is equipped with eight high-speed schottky diode as protection. This driver carries neat circuit layout and bonded components, in addition, the multi-layer design enables it to be plugged to Arduino directly. L298P Shield DC motor driver carries PWM mode. The motor can be powered via Arduino VIN input or terminal input on the driver, which are switchable by jumper.

Specification

1. Logic part input voltage : VD: 5V
2. Driving part input voltage VS: VIN input 6.5 ~ 12V, PWRIN input 4.8 ~ 24V
3. Logic part working current I_{ss}: ≤ 36mA
4. Driving part working current I_o: ≤ 2A
5. Maximum dissipation power: 25W (T = 75°C)
6. Control signal input level:
High level: 2.3V ≤ V_{in} ≤ 5V
Low level: -0.3V ≤ V_{in} ≤ 1.5V
7. Working temperature: -25°C ~ +130°C
8. Driver form: Dual power H bridge driving



GPS Shield

SKU:KS0253

Introduction

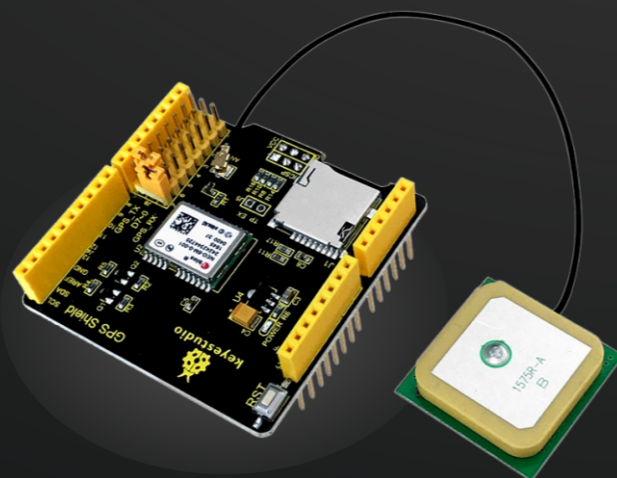
It is based on the NEO-6u v2 GPS module, and its pins are compatible with Arduino/MEGA board. Regular GPS pins (RX, TX) can be connected to Arduino D0-D7.

Several GPS receivers are easily installed on the expansion board and you can find your exact position within a few meters. At the same time, GPS also provides a very accurate time for you!

It is applied to automobile navigation, personal positioning, team management, navigation and so on.

Specification

1. Using a source GPS antenna;
2. Connecting TxD and RxD to Arduino pins (D0-D8 optional) by jumping wire, and the default position for the jumper caps is as below: D2 <-> RX, D3 <-> TX.
3. TF cassette, SPI interface, supporting Arduino library;
4. With reset button, supporting directly reset the Arduino baseplate.



keyestudio Protoshield for Arduino with Mini Breadboard

KS0003

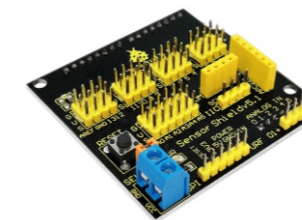


Introduction

keyestudio Protoshield for Arduino is used to build circuit prototype. You can weld elements on the board directly or connect circuits with the mini breadboard. The breadboard is connected to the circuit board by a double-sided adhesive. This protoshield is set with two LEDs and two button circuits which can be used directly and all the pins and power supply has been drawn. It is very suitable for working with Arduino to build a circuit prototype.

keyestudio Sensor Shield V5

KS0004

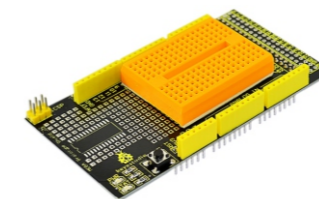


Introduction

The stackable design and PCB metallurgical deposition process are applied on the latest Arduino Sensor shields V5. All digital and analog interfaces of Arduino UNO R3 are led out in the form of steering gear line sequence on the main board, and IIC port, SPI port, Bluetooth interface, APC220 wireless RF interface, and RBUFRV1.1 ultrasonic sensor interface are applied. This independent lead-out design makes the sensor board more convenient and easier to use.

keyestudio MEGA Proto Shield V3

KS0005

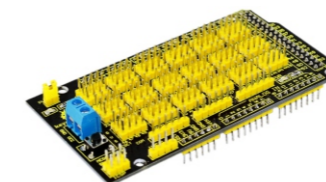


Introduction

Keyestudio ProtoShield is particularly designed for the MEGA 2560. It makes it easy for you to design custom circuits and solder electronics directly on it. For convenient use, there is a large prototyping space of both connected and unconnected spaced through-holes on the shield. There is also a soldering position reserved for SMD chip on the protoshield. You can easily solder SMD ICs on the prototyping area to test them with your Arduino board.

keyestudio MEGA Sensor Shield V1

KS0006



Introduction

It is fully compatible with MEGA 2560 control board, so that you can easily stack the MEGA sensor shield onto the MEGA 2560 control board. The shield comes with digital and analog interfaces in 3PIN (G V S), easy to connect the 3PIN sensor modules. Besides, it comes with communication pins of 2.54mm pin pitch, such as serial and SPI communication. It comes with a reset button and 2 signal indicators as well.

keyestudio SIM900 GSM/GPRS Module Shield

KS0142



Introduction

SIM900 GSM/GPRS shield is based on Quad-Band SIM900 GSM/GPRS module. It provides Arduino with GSM/GPRS function. This shield allows you to make voice calls, send SMS or make connections to the Internet network. On the shield, there is a serial port toggle switch for you to select either software serial port or hardware serial port to be connected to GPRS Shield. If you choose software serial port, you need to use the Software UART; otherwise, you need to use the Hardware UART. The shield includes a high capacitor dedicated to RTC (Real Time Clock).

keyestudio Nano IO Shield

KS0146



Introduction

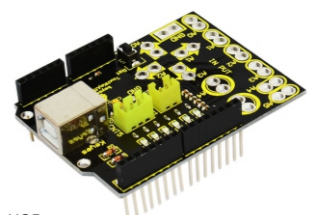
keyestudio Nano IO shield is a breakout board designed for Nano 328P. It breaks out all pins as electronic brick 3pin interface. It has a 7-12V external power interface, with XBee socket and 24L01 socket, extending the wireless capability of Nano.

Specification

- * Break out 14 digital IO pins and power supply pins;
- * 8 analog IO interfaces and external power interface; * 1 IIC interface;
- * 1 XBee socket; * 1 24L01 socket; * 1 serial communication interface.

keyestudio Touch Key USB Shield

KS0147

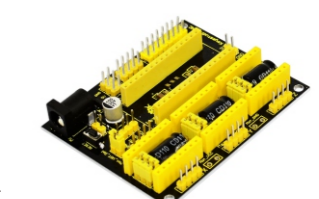


Introduction

You can use a keyestudio Touch Key USB shield and a keyestudio Uno R3 to simulate a keyboard. The input method of touch key USB shield is to touch, using dual contacts touch switch, to lead the touch terminal and the ground terminal connected to the two electrodes touch. When you touch the two electrodes, there is certain current flowing through between them because of body resistance. Detect the current to know the touch events.

keyestudio A4988 3D Printer Stepper Motor Driver CNC Shield V4

KS0152

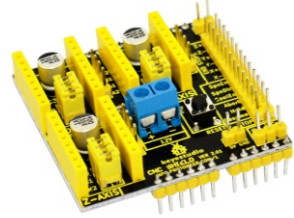


Introduction

keyestudio 3D printer stepper motor driver CNC shield V4 needs to work with Nano board. It can be used as driver expansion board for engraving machines and 3D printers. It has in total 3 channel slots for A4988 stepper motor driver modules (not included) for driving 3 channel of stepper motors. Each channel of stepper motor only needs 2 IO ports, which means 6 IO ports is sufficient to manage 3 stepper motors. This shield can make quick work for managing stepper motors in your project.

keyestudio A4988 3D Printer Stepper Motor Driver CNC Shield V2

KS0151



Introduction

keyestudio CNC shield V2 is used as driving shield for engraving machines, fully compatible with UNO R3 . It has total 3-way pin slots for stepper motor drive modules (Not Included) to drive 3-channel stepper motors. To easily debug the operating mode of stepper motor driver board, there are 3 jumper caps under each pin slots. You can set the working mode by plugging or unplugging the jumper cap.

keyestudio JoyStick Shield

KS0153

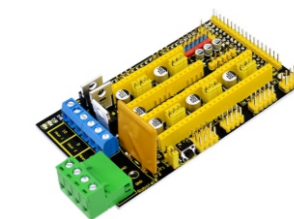


Introduction

Keyestudio Joystick Shield is particularly developed for you to design your own game machines. It adds an nRF24L01 RF interface and Nokia 5110 LC0 interface, easy for secondary game development. Because this RF module has stable performance, and supports 6 in 1 game play, which allows developers to play freely. we add enhanced Nokia5110 display library, including display bitmap, draw point line circle flip and so on.

keyestudio Mega Pololu Shield (RAMPS 1.4)

KS0154



Introduction

keyestudio RAMPS1.4A is used as driving shield for 3D printers, fully compatible with MEGA2560 control board and official RAMPS 1.4 . It has total 5 slots for stepper motor drive module to drive 5-channel stepper motors. The slots are compatible with all kinds of drive modules like A4988, DEV8825. There are 3 jumper caps under each slot, which can be used to control the working subdivision of drive modules.

keyestudio USB Host v1.5 Shield

KS0155



Introduction

keyestudio USB Host shield V1.5 is an add-on board for Arduino USB Host. Directly plug it to Arduino board and it will allow Arduino to have USB Host function. Arduino with host function can communicate with USB devices, such as USB flash disk, keyboards, mouse, joysticks, digital cameras. Among these functions, the most attractive one is supporting the connection of android phones to realize Google ADK function.

keyestudio W5100 Ethernet Shield

KS0156

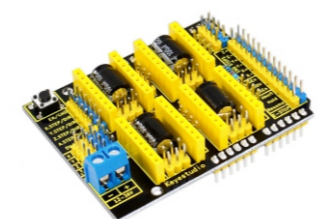


Introduction

keyestudio W5100 Ethernet Shield gives you an easy way to get your Arduino Online. It can turn your Arduino into a simple web server or use the Internet to read /write its digital and analog outputs/inputs. Compatible with the UNO R3 board and Mega 2560 R3. It is directly supported by Arduino official Ethernet Library. It also supports the read &write of mini SD card (TF card).

keyestudio CNC Shield V3

KS0160

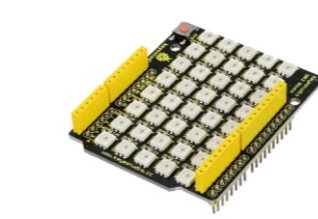


Introduction

keyestudio CNC shield V3 is used as driving shield for engraving machines, fully compatible with UNO R3 . So you just need to stack it onto UNO R3 control board when using. It has total 4-way pin slots for stepper motor drive modules (Not Included) to drive 4-channel stepper motors. Each stepper motor only needs 2 IO ports, so 8 IO ports is enough to manage 4 stepper motors, very easy to use.

keyestudio 40 RGB LED 2812 Pixel Matrix Shield

KS0163

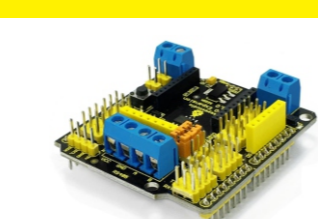


Introduction

keyestudio 2812 shield adopts stackable design compatible with UNO board. It is an intelligent controlled LED light source that the control circuit and RGB chip are integrated in a 5050 SMD component. LED has the advantages of low driving voltage, environmental-friendly, energy saving high brightness, large scattering angle, good consistency, long life span, etc.

keyestudio Xbee Sensor Shield V5 with RS485 BLUEBEE Interface

KS0164



Introduction

We develop this keyestudio XBEE sensor shield, it can help you easily connect most sensor modules to Arduino. The shield extends the digital and analog interfaces into 3PIN interface, also comes with RS485 communication and XBEE Bluetooth module interface. You can change the communication way via the jumper cap on the shield.

keyestudio Multi-purpose Shield V1

KS0183

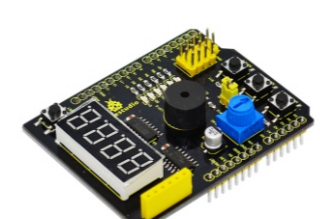


Introduction

Multi-purpose Shield V1 is a learning board based on Arduino. No need for soldering and connection. Download the program to complete experiment. It is multi-purpose and we offer code libraries of all modules that have been tested. You can use them directly. There are extension ports on the shield to help you to complete other experiments.

keyestudio Multi-purpose Shield V2

KS0184



Introduction

Multi-purpose Shield V1 is a learning board based on Arduino. No need for soldering and connection. Download the program to complete experiment. It is multi-purpose and we offer code libraries of all modules that have been tested. You can use them directly. There are extension ports on the shield to help you to complete other experiments.

keyestudio PM2.5 Shield

KS0196

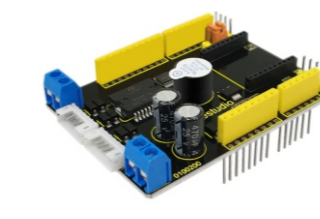


Introduction

It has an IR LED and photoelectric transistor. Arranging them with across corners can detect the reflected light of dust in the air. Ultra-low power consumption(max at 20mA, typical at 11 mA), analog voltage output is liner with dust density. It can be equipped with sensors up to 7V DC. The sensitivity is 0.5V/(0.1mg/m3).

keyestudio Balance Car Shield

KS0202

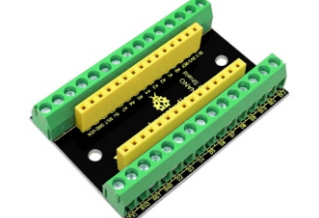


Introduction

This keyestudio shield is particularly developed for balance car based on Arduino development board. It mainly use the driver chip L298P produced by LGS Electronics, which is specially applied to large power motors. So the shield can drive two DC motors, and the driven current is up to 2A. It adopts the MPU6050 chip, and uses the built-in data management platform DMP to output the processing data through IIC interface.

keyestudio NANO IO Shield

KS0250



Introduction

This is a simple and small NANO IO shield. It breaks out all the pins of keyestudio Nano ch340, easy to hook it up to make experiments. Onboard comes with two 3mm fixed holes, convenient to fix the shield on other objects.

keyestudio 4-channel Relay Shield

KS0251

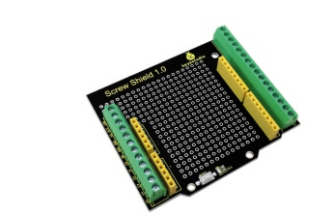


Introduction

The keyestudio relay shield has integrated a 4-channel 5V relay module, which is fully compatible with UNO R3 control board. The 4-channel relay on the shield is active at HIGH level. Separately connect the 4-channel relay to the digital port 4, 5, 6, 7 on the UNO R3 board, then through controlling output HIGH or LOW to control the relay on and off.

keyestudio Proto Screw Shield for Arduino

KS0252



Introduction

The shield comes with a double-sided prototyping area so that you can solder some electronic elements to design your various prototype circuits. It also comes with a reset button and a D13 indicator. This shield is an integration of Arduino Screw Shield and Proto Shield.

keyestudio GPS Shield

KS0253



Introduction

It is based on the NEO-6M-0-001 module, and those pins are also compatible with UNO R3 and MEGA 2560 control board. Regular GPS pins (RX, TX) is connected to Arduino D0-D7, and you are able to set the connection pin via the jumper cap.

keyestudio Sim800c Shield

KS0254

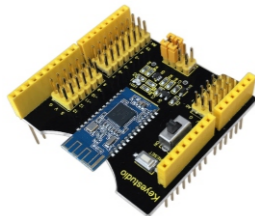


Introduction

This is a GPRS/GSM expansion board for Arduino. The shield supports the frequency of EGSM 900MHz /DCS 1800MHz and GSM850 MHz /PCS 1900MHz, integrated with GPRS, DTMF and other functions. It also supports DTMF. When enable the DTMF function, get the character feedback converted from the pressed button during the call, which can be used for remote control.

keyestudio Bluetooth 4.0 Expansion Shield

KS0255



Introduction

The keyestudio Bluetooth 4.0 shield is an integration of sensor shield and HM-10 Bluetooth-4.0, fully compatible with UNO R3. So it is very easy to stack it onto the UNO R3 board. The shield has extended all the digital and analog pins out into 3PIN, simple to connect the sensor using 3PIN wire.

keyestudio LCD1602 Expansion Shield

KS0256

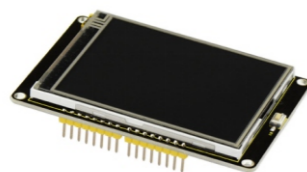


Introduction

The keyestudio LCD shield integrates 1602 LCD display and six buttons into one piece, which is fully compatible with keyestudio UNO R3 control board. It is very simple and convenient for you to stack it onto UNO board. There are two communication methods for 1602 LCD display and UNO R3 board, separately the 8-Bit connection and 4-Bit connection. The LCD shield is default the 4-Bit connection.

keyestudio 2.8 Inch TFT LCD Shield

KS0257

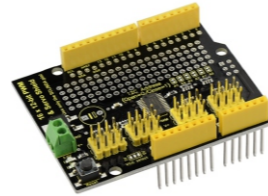


Introduction

This is a keyestudio 2.8 inch TFT LCD shield with touchscreen. This TFT display is driven with ILI9325 chip and has 240x320 pixels with individual RGB pixel control. This display has a resistive touchscreen attached to it already, so you can detect finger presses anywhere on the screen.

keyestudio 16-channel Servo Motor Drive Shield

KS0258



Introduction

Use this expansion board, which is directly stacked on the Arduino UNO R3 board. It can drive up to 16 servos and use I2C input, occupying A4 and A5 pins of UNO. The shield also comes with PCB double-sided holes, which can be used to solder with components to build up prototyping circuits.

keyestudio PN532 NFC/RFID Controller Shield

KS0259



Introduction

Keyestudio PN532 NFC/RFID Controller Shield based on PN532 chip is used for field communication close to 13.56MHz. This shield is equipped with an antenna onboard, so there is no external antenna coil. It is compatible with SPI, IIC, UART interface to communicate. When using it, directly stack it onto UNO R3 control board.

keyestudio ReSpeaker 2-Mic Pi HAT V1.0

KS0314

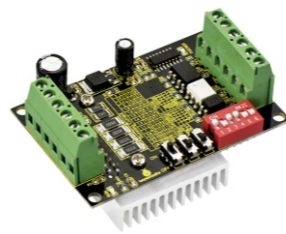


Introduction

There are two microphones on the shield for sound collection, three APA102 RGB LEDs, one user button and two Grove connectors for application extension. With this shield, you can build a more powerful and flexible voice product that integrates Amazon Amazona voice services, Google Assistant, and more.

keyestudio Tb6560 Stepper Motor Drive Board

KS0318

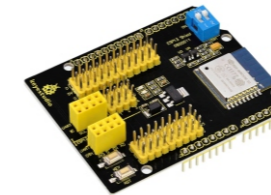


Introduction

This keyestudio board mainly uses the TB6560 stepper motor driver, which is an economical stepper motor driver with high stability, reliability and immunity. It can be applied to various industrial control environments. It has the function of automatic half-current, low-voltage shutdown for over-current protection and over-temperature shut down.

keyestudio ESP13 Shield Serial Port Module

KS0366



Introduction

The keyestudio ESP13 shield is particularly designed for Arduino microcontrollers to connect the WiFi. It adopts industrial grade chip ESP8266. It is ESP-13 with metal shield, with strong anti-interference ability. It can not only be used as an independent ESP8266 development board, downloading official AT command firmware, NodeMCU open source firmware and so on, but also can be used as a stand-alone Arduino UNO shield, with all leadout pins.

keyestudio Balance Car Shield V3

KS0377



Introduction

The shield comes with a XBEE Bluetooth socket, so you can connect the Bluetooth APP to easily control the balance car. With the APP, you can choose both key control and gravity control mode, besides, you can also adjust the balance angle and change PID parameters. The shield is also compatible with a 12V permanent magnet brush motor with a reduction ratio of 1:30 and a locked torque of 7.5kg.cm.

keyestudio ESP 01S WIFI to Serial Shield

KS0385

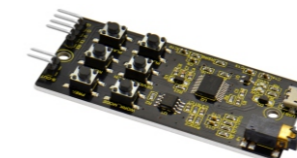


Introduction

This is an expansion board for the ESP-01S WiFi module. After power-on, the module is in BOOT flash mode. The AT command can be directly tested through the serial port on the shield.

keyestudio USB to ESP-01S Wifi Module Serial Port Shield

KS0388



Introduction

This is an expansion board for the ESP-01S WiFi module. The shield comes with a USB to Serial port chip CH340G. You can download the firmware to ESP-01 module using firmware software.

keyestudio I2C Interface Conversion Shield

KS0392



Introduction

This is an I2C interface conversion shield. The I2C shield breaks out the I2C communication port with 4pin header of 2.54mm pitch. The pin headers lead to 10 communication ports, ensuring that the MCU can perform I2C communication with 9 sensor modules at the same time.

keyestudio RS232 to TTL Conversion Shield

KS0406



Introduction

The RS232 to TTL conversion shield is specially designed for UNO R3 control board, very convenient to change the serial port into RS232 interface. The shield comes with a DB9 connector (male head), easy to connect various RS232 interface equipment. It also comes with a RS232 pin header for connection and debugging.

keyestudio CAN-BUS Shield

KS0411



Introduction

It uses the MCP2515 chip as the CAN controller; MCP2551 chip as the transceiver. The shield can connect the Arduino to the on-board diagnostic system via a standard 9pin serial portOBD-II cable. It is the best choice for CAN applications.

keyestudio L298P Shield

KS0412



Introduction

It is a two-way DC motor drive shield with L298P as the core. The green terminal blocks on the shield are connected to VIN GND of UNO R3; simply power the board via terminal blocks or DC jack on the UNO R3. The max voltage supply should be DC18V.