



(/Public/Home/uploads/products/570728fa9af0f.jpg)

## Iduino Mega2560

Item No.: ST1026

## Description:

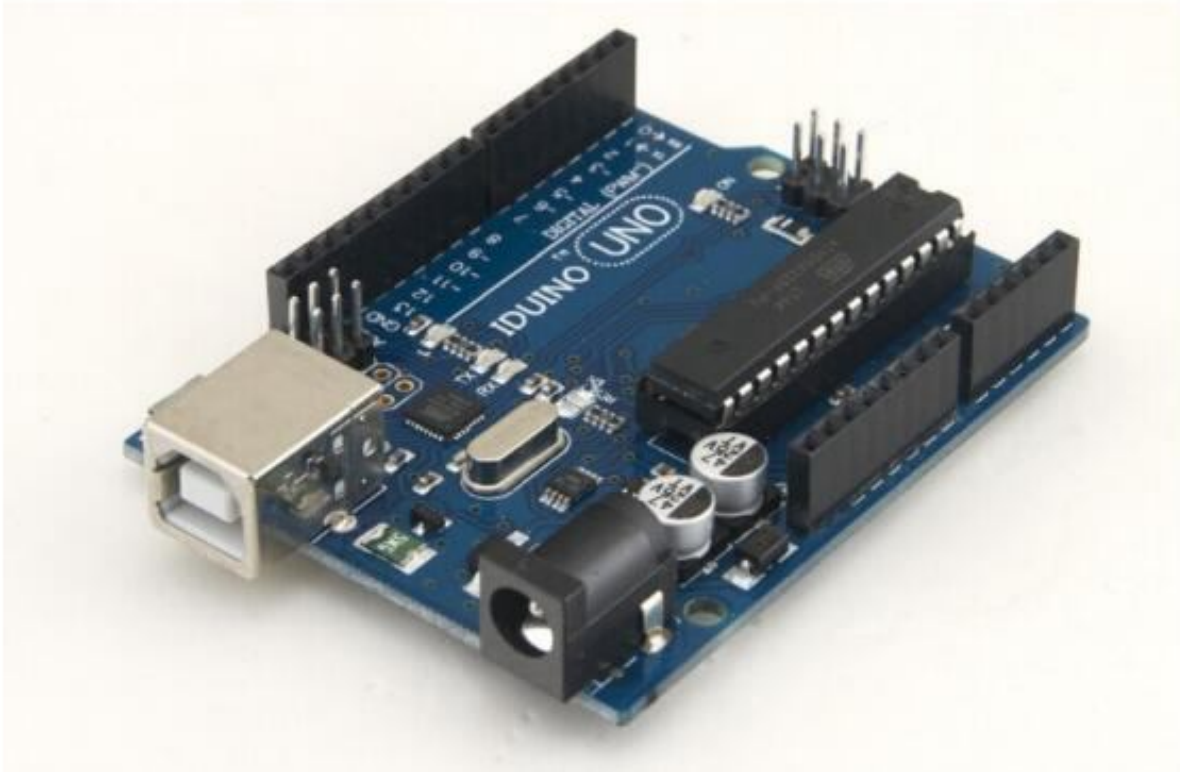
The Arduino Mega 2560 is a microcontroller board based on the ATmega2560. It has 54 digital input/output pins (of which 15 can be used as PWM outputs), 16 analog inputs, 4 UARTs (hardware serial ports), a 16 MHz crystal oscillator, a USB connection, a power jack, an ICSP header, and a reset button. It contains everything needed to support the microcontroller; simply connect it to a computer with a USB cable or power it with a AC-to-DC adapter or battery to get started. The Mega is compatible with most shields designed for the Arduino Duemilanove or Diecimila.

## Specification:

Microcontroller	ATmega2560
Operating Voltage	5V
Input Voltage (recommended)	7-12V
Input Voltage (limits)	6-20V
Digital I/O Pins	54 (of which 15 provide PWM output)
Analog Input Pins	16
DC Current per I/O Pin	40 mA
DC Current for 3.3V Pin	50 mA
Flash Memory	256 KB of which 8 KB used by bootloader
SRAM	8 KB
EEPROM	4 KB
Clock Speed	16 MHz

# User Manual

For IDUINO development Board





## 1.1 what is Arduino?

Arduino is an open-source prototyping platform based on easy-to-use hardware and software. Arduino boards are able to read inputs - light on a sensor, a finger on a button, or a Twitter message - and turn it into an output - activating a motor, turning on an LED, publishing something online. You can tell your board what to do by sending a set of instructions to the microcontroller on the board. To do so you use the Arduino programming language (based on Wiring), and the Arduino Software (IDE), based on Processing.

The official website is [www.arduino.cc](http://www.arduino.cc) and [www.arduino.org](http://www.arduino.org).

## 1.2 what is IDUINO ?

Because of the arduino technology is totally opensource, so anyone can use this facility to create more valuable products.

IDUINO is a series of Arduinio opensource products collection, which includes not only motherboard, but hundreds of sensors and modules used for Arduino board, and many kinds of Arduino Starter Kit, many kinds of Arduino projects, many kinds of car chassis , expansion board, accessories , Arduino DIY 3D Printer.

IDUINO are more focused on manufacturing and constructing Arduino project system.

## 1.3 What's the difference between Arduino and IDUINO?

For the development, IDUINO is just a different brand comparing with the Arduino development.

For other categories, IDUINO's quantity exceeds Arduino a lot.

# 3. IDUINO Mega 2560

The Mega 2560 is a microcontroller board based on the ATmega2560. It has 54 digital input/output pins (of which 15 can be used as PWM outputs), 16 analog inputs, 4 UARTs (hardware serial ports), a 16 MHz crystal oscillator, a USB connection, a power jack, an ICSP header, and a reset button. It contains everything needed to support the microcontroller; simply connect it to a computer with a USB cable or power it with a AC-to-DC adapter or battery to get started.

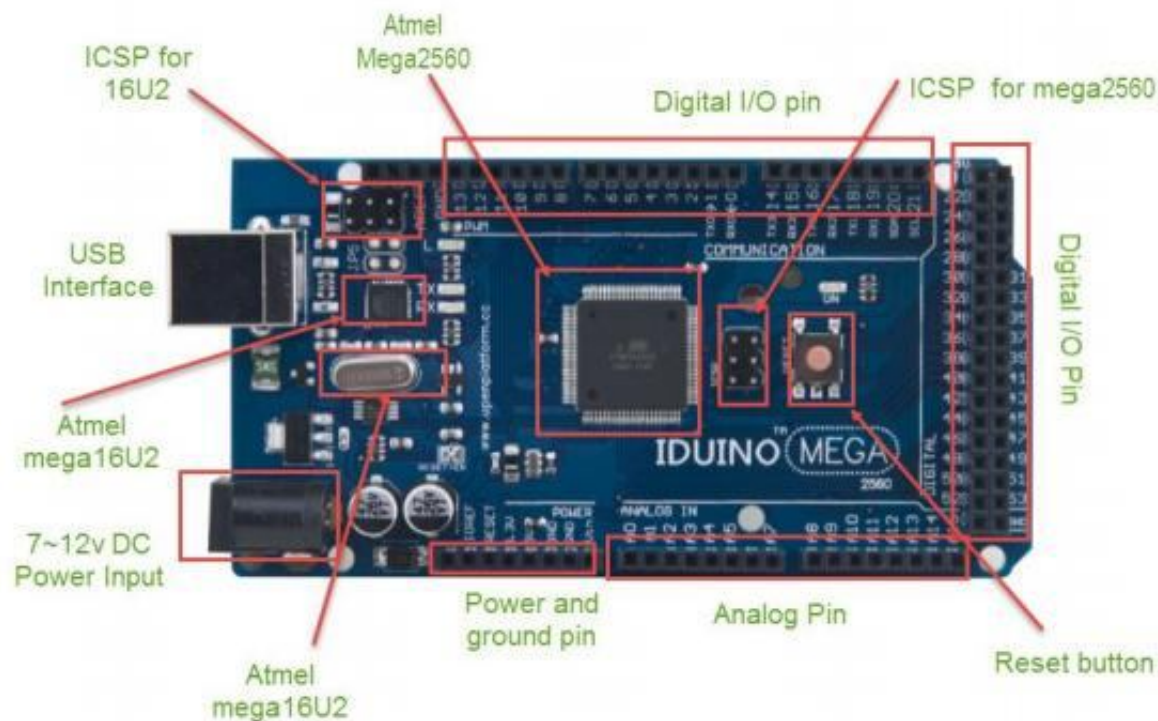
**Pinout:**

[www.openplatform.cc](http://www.openplatform.cc)

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IDUINO for maker's life

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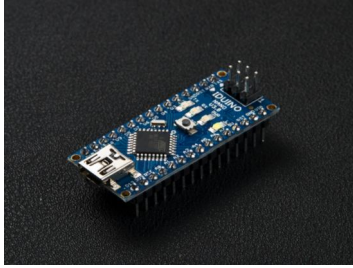
### Specifications:

Microcontroller	ATmega2560
Operating Voltage	5V
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Input Voltage (limit)	6-20V
Digital I/O Pins	54 (of which 15 provide PWM output)
Analog Input Pins	16
DC Current per I/O Pin	20 mA
DC Current for 3.3V Pin	50 mA
Flash Memory	256 KB of which 8 KB used by bootloader
SRAM	8 KB
EEPROM	4 KB
Clock Speed	16 MHz
Length	101.52 mm
Width	53.3 mm
Weight	37 g

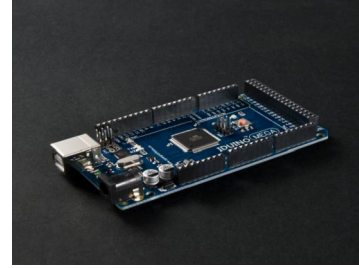


# Recommended Products

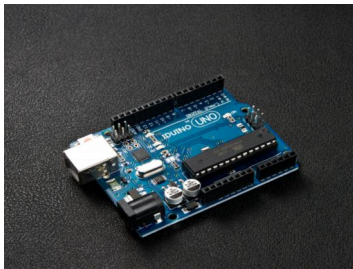
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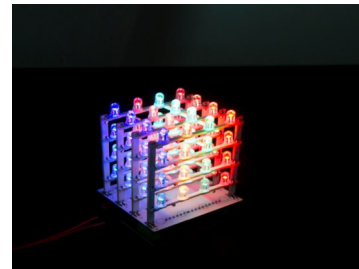
Iduino Nano 328P  
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Item No.: ST1027



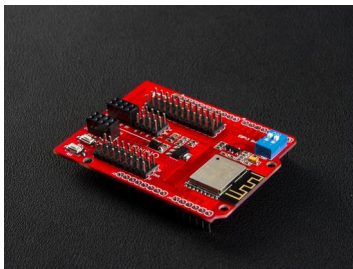
Iduino Mega2560  
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Iduino Uno rev3  
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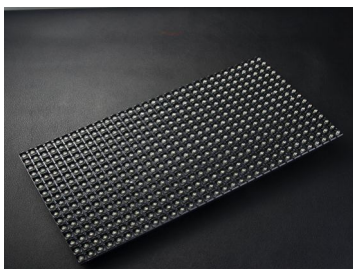
RGB LED Cube Kit 4x4x4 for Arduino  
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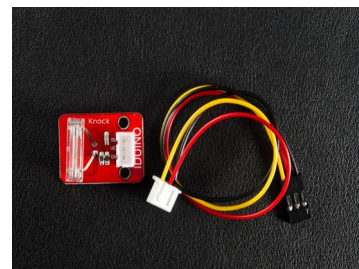
ESP8266 Wifi Shield For Arduino  
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Item No.: AD010



DIY Learning Boards Module Kit  
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Item No.: KTS014

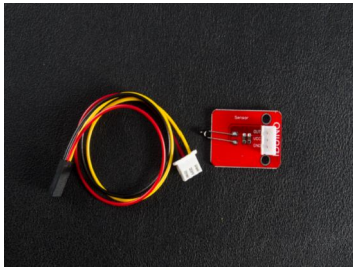


Large Dot Matrix LED Display Panel(White)



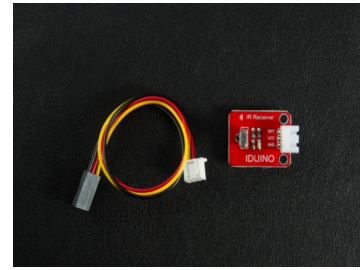
Easy Hit Sensor Module

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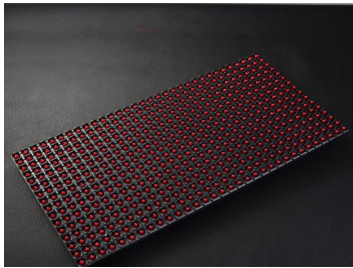


Easy Analog Temperature Sensor  
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Item No.: se026

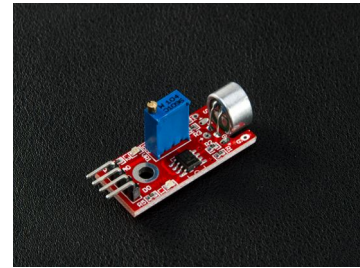
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Item No.: se024



Easy IR Receiver Module  
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Item No.: SE027



Large Dot Matrix LED Display Panel(Red)  
(/index.php/home/index/details/apiid/82)  
Item No.: AD027



Large Microphone Module  
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Item No.: ST1146



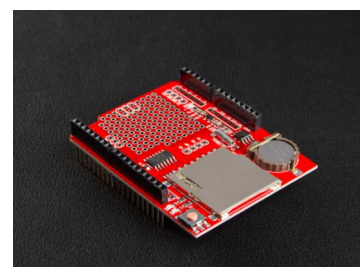
Easy IR Transmitter Module  
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Item No.: SE028



Duino Leonardo  
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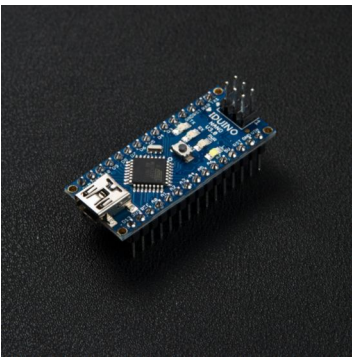


Ethernet Interface Module  
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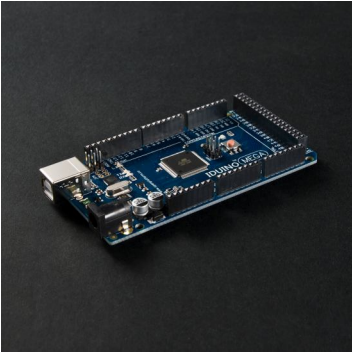


Data Log Module  
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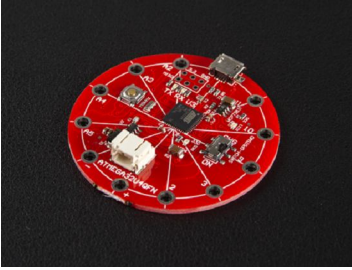
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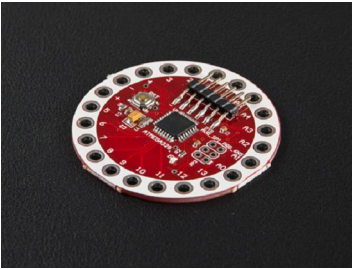
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(/index.php/home/index/details/apiid/19)



(/index.php/home/index/details/apiid/236)

## About Us

OpenSmart is a set production and development of open-source hardware technology companies. We are dedicated providing customers with quality products and technical services to customers throughout the world. We are located in Shenzhen, China, where has a strong manufacturing capability, types of electronic components to meet your needs. We hope that our services can help your business.

## Contact Us

Please enter an accurate product name or SKU here to help our staff easily to know what product you mean.

\* Subject:

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\* Description:

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MakerFaire (<http://www.makefaire.com>) Arduino.cc (<http://www.arduino.cc>)

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