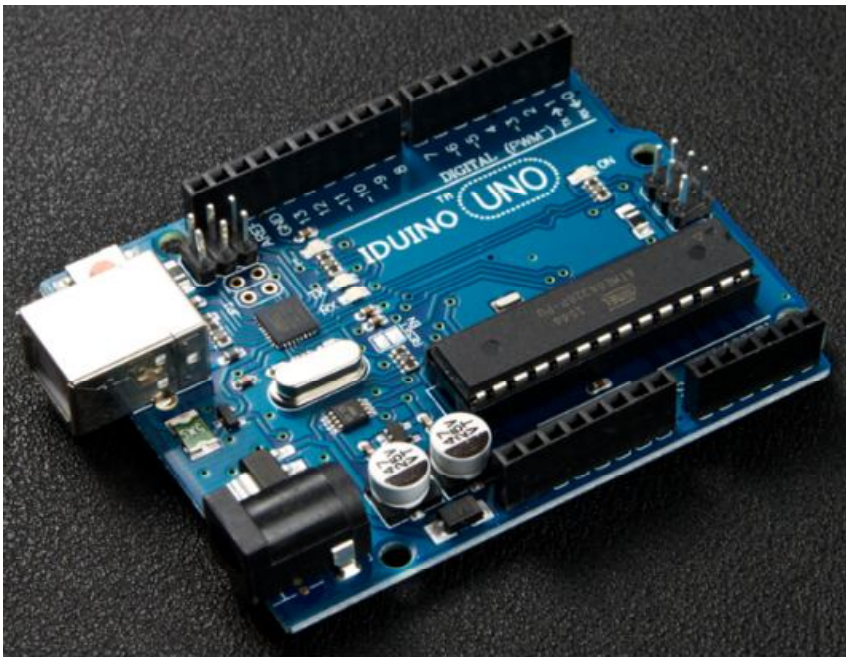
Iduino Uno rev3

Item No.: ST1025



Description:

The Iduino Uno is a microcontroller board based on the ATmega328. It has 14 digital input/output pins (of which 6 can be used as PWM outputs), 6 analog inputs, a 16 MHz ceramic resonator, 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.

Specifation:

Microcontroller	ATmega328
Operating Voltage	5V
Input Voltage (recommended)	7-12V
Input Voltage (limits)	6-20V
Digital I/O Pins	14 (of which 6 provide PWM output)
Analog Input Pins	6
DC Current per I/O Pin	40 mA
DC Current for 3.3V Pin	50 mA
Flash Memory	32 KB (ATmega328) of which 0.5 KB used by bootloader
SRAM	2 KB (ATmega328)
EEPROM	1 KB (ATmega328)
Clock Speed	16 MHz
Length	68.6 mm
Width	53.4 mm
Weight	25 g

1. Overview

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 and 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 Ardunio 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?

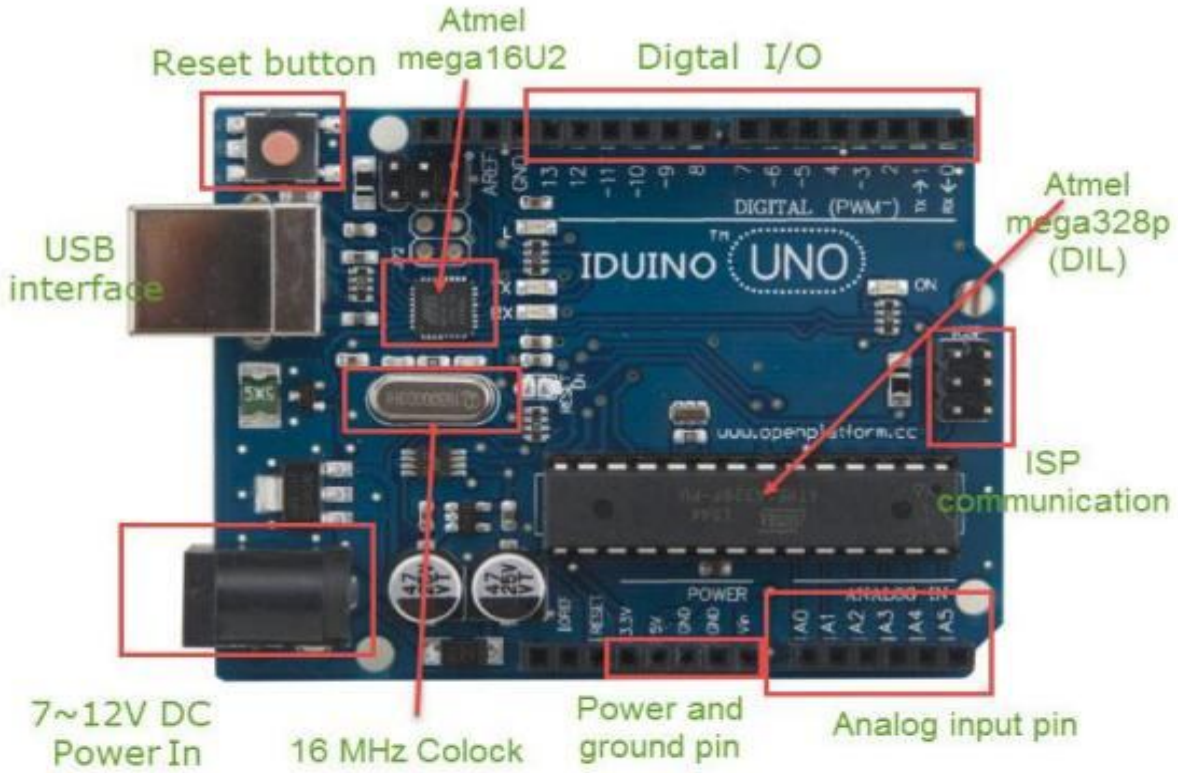
For the development board, IDUINO is just a different brand comparing with the Arduino development board.

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

2. IDUINO uno

The IDUINO uno is 100 percent compatible with Arduino uno(Re3). It is a microcontroller board based on the ATmega328P. It has 14 digital input/output pins (of which 6 can be used as PWM outputs), 6 analog inputs, a 16 MHz quartz crystal, 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. You can tinker with your UNO without worrying too much about doing something wrong, worst case scenario you can replace the chip for a few dollars and start over again.

Pinout:



Specifications:

Microcontroller	ATmega328P
Operating Voltage	5V
Input Voltage (recommended)	7-12V
Input Voltage (limit)	6-20V
Digital I/O Pins	14 (of which 6 provide PWM output)
PWM Digital I/O Pins	6
Analog Input Pins	6
DC Current per I/O Pin	20 mA
DC Current for 3.3V Pin	50 mA
Flash Memory	32 KB (ATmega328P) of which 0.5 KB used by bootloader
SRAM	2 KB (ATmega328P)
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Clock Speed	16 MHz
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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.

For more information see: http://www.openplatform.cc/index.php/home/index/details/apiid/17