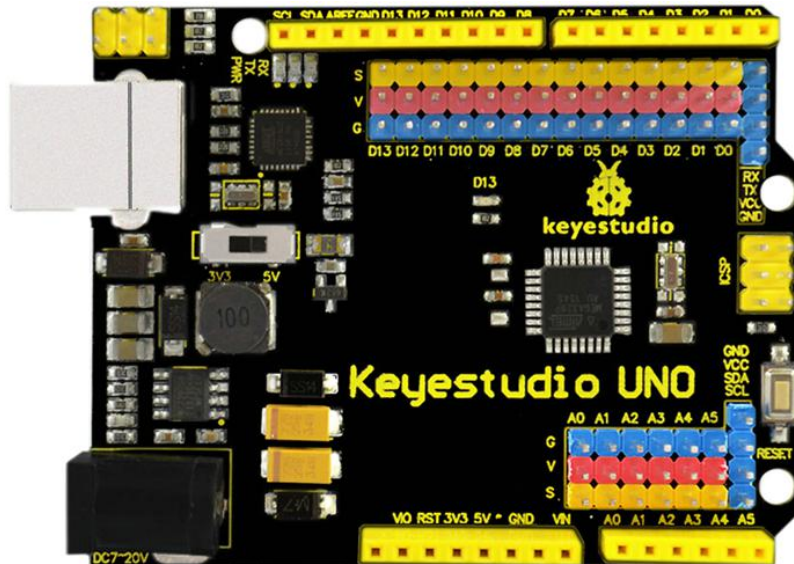


# keyestudio

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## keyestudio UNO with pin header interface



### Introduction

keyestudio UNO with pin header interface 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.

For convenience of wiring, we designed electronic brick 3pin interface corresponding to all 14 digital pins, 6 analog pins, 1 pin header for serial communication and 1 for IIC communication. It also has a toggle switch. When switched to 5V, level on serial communication port is 5V, voltage of pins is 5V; When switched to 3.3V, level on serial communication port is 3.3V, voltage of pins is 3.3V.

### Specification

1. Microcontroller core: ATmega328P-pu
2. Working voltage: +5V
3. External input voltage: +7V to +12V (recommended)
4. External input voltage ( extremum ):  $+6V \leq V_{in} \leq +20V$
5. Digital signal I/O interface: 14 (of which 6 provide PWM output)

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6. Analog signal input interface: 6
7. DCI/O interface current: 20mA
8. FlashMemory: 32KB (ATmega328) of which 0.5 KB used by bootloader
9. SRAM static storage capacity: 2KB
10. EEPROM storage capacity: 1K
11. Clock frequency: 16MHZ