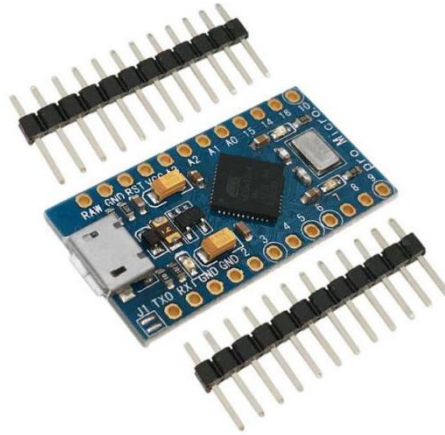


Keyes Pro Micro with Atmega32U4



1. Introduction

Keyes Pro Micro is a mini main control board based on the Atmega32U4. This development board is compatible with all Arduino tips, which includes 4 analog inputs, 5 PWM pins, 12 digital input/output and hardware serial connections Rx and Tx. Its operating voltage is 3.3V, and operating frequency is 8MHz, accepting the external power supply voltage up to DC 9V. The anode of the power supply board is connected to the RAW, and we have added a PTC fuse and diode protection power supply circuit. When selecting a test program, the Arduino IDE version must be greater than or equal to version 1.0.3.

2. Technical Parameters

Microcontroller: ATMEGA32U4

RAW: DC 7-9V

VCC: 3.3V at 500mA

Clock Speed: 8 MHz

Digital I/O Pins: 12 (of which 5 provide PWM output)

Analog Input Pins: 4

Maximum current for chip: 200mA

Maximum current per pin: 40mA

Recommended current per pin: 20mA

8-bit Atmel AVR

Flash Program Memory: 32 KB (ATmega32u4) of which 4 KB used by bootloader

EEPROM: 1kB

Internal SRAM 2.5kB

ADC: 10-bit

PWM: 8bit

High Speed PWM with programmable resolution from 2-11 bits

3. Pin Definition

