

产品说明

Arduino Micro 是 Arduino 系列中最小的板子（48mm x 18mm），易于将其集成到日常物品中，使其具有交互性。

Micro 是一款基于 ATmega32U4 的微控制器板，它有 20 个数字 I/O（其中 7 个可用作 PWM 输出，12 个用作模拟输入），1 个 16 MHz 晶振，1 个微型 USB 连接，1 个 ICSP 接头和 1 个复位按钮。它包含支持微控制器所需的一切；只需使用 micro USB 线将其连接到计算机即可开始使用。它的外形特点使他可以轻松放置在面包板上。

Micro 板类似于 Arduino Leonardo，ATmega32U4 内置 USB 通信，无需二级处理器。除了虚拟（CDC）串行/COM 端口之外，这允许 Micro 作为鼠标和键盘出现在连接的计算机上。

特点：

基于 ATmega32U4

Arduino 系列中体积最小

20 个数字 I / O 引脚，32KB 闪存，16 MHz 时钟速度

可以识别为鼠标或键盘

	Duemilanove	UNO R3	Nano	Mini	Leonardo	MEGA2560 R3	Due
MCU	ATmega168/328	ATmega328	ATmega168/328	ATmega168/328	ATmega32u4	ATmega2560	AT91SAM3X8E
工作电压/I/O电压	5V	5V	5V	5V	5V	5V	3.3V
数字IO	14	14	14	14	20	54	54
PWM	6	6	6	6	7	15	12
模拟输入IO	6	6	8	8	12	16	12
时钟频率	16 MHz	16 MHz	16 MHz	16 MHz	16 MHz	16 MHz	84 MHz
Flash	16 KB / 32 KB	32 KB	16 KB / 32 KB	16 KB / 32 KB	32 KB	256 KB	512 KB
SRAM	1 KB / 2 KB	2 KB	1 KB / 2 KB	1 KB / 2 KB	2.5 KB	8 KB	96 KB
EEPROM	512 bytes / 1 KB	1 KB	512 bytes / 1 KB	512 bytes / 1 KB	1 KB	4 KB	-
USB芯片	FTDI FT232RL	ATmega16u2	FTDI FT232RL	-	-	ATmega16u2	-
其他特点	早期Arduino版本 现已停产	目前使用人数最多的 型号 适合初学者使用	功能和 Duemilanove一致 但更为小巧	最小的Arduino控制 器 但下载程序得搭配外 部的下载器	可以模拟鼠标键盘等 USB设备	 配置最高的8位 Arduino控制器	 32位Arduino控制器 带有 模拟输出引脚 2个 CAN总线 Arduino 中文社区

技术参数

微控控制器： ATmega32U4

工作电： 5V

输入电压（推荐）： 7-12V

输入电压（极限）： 6-20V

数字 I / O : 20

PWM 通道： 7

模拟输入通道： 12

每个 I / O 引脚的直流电流： 20 mA

3.3V 引脚 50 mA 的直流电流

闪存： 32 KB (ATmega32U4) ， 其中 4 KB 由引导加载程序使用

SRAM : 2.5 KB (ATmega32U4)

EEPROM: 1 KB (ATmega32U4)

时钟速度： 16 MHz

LED_BUILTIN: 13

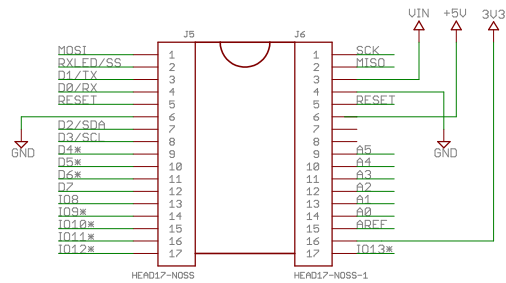
尺寸： 48mm x 18mm x 16mm

重量： 13g

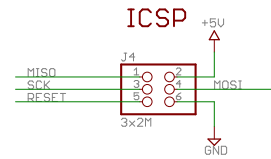
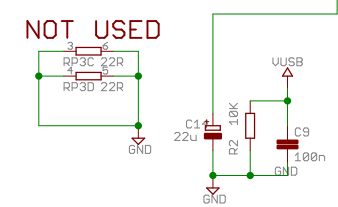
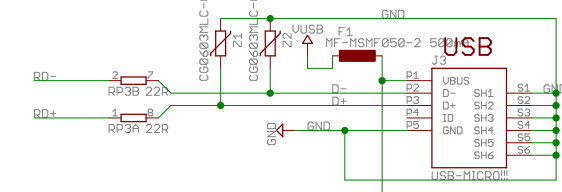
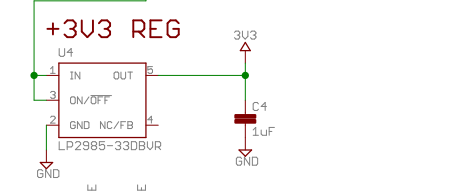
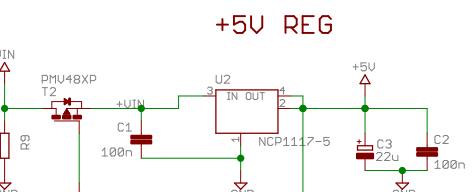
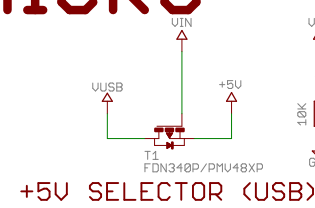
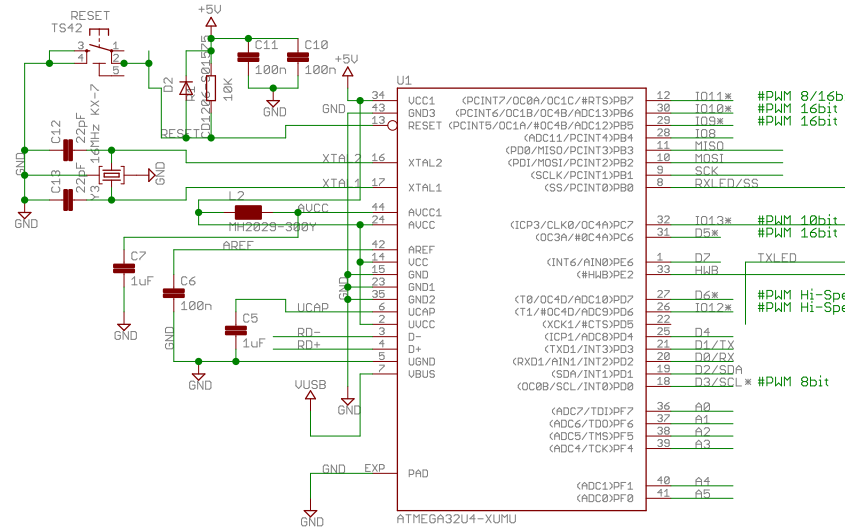
Overview

The Micro is a microcontroller board based on the ATmega32U4 ([datasheet](#)), developed in conjunction with [Adafruit](#). It has 20 digital input/output pins (of which 7 can be used as PWM outputs and 12 as analog inputs), a 16 MHz crystal oscillator, a micro USB connection, an ICSP header, and a reset button. It contains everything needed to support the microcontroller; simply connect it to a computer with a micro USB cable to get started. It has a form factor that enables it to be easily placed on a breadboard.

The Micro board is similar to the Arduino Leonardo in that the ATmega32U4 has built-in USB communication, eliminating the need for a secondary processor. This allows the Micro to appear to a connected computer as a mouse and keyboard, in addition to a virtual (CDC) serial / COM port.



Arduino™ MICRO



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