LilyPad Arduino USB ATmega32U4 Board

DEV-12049
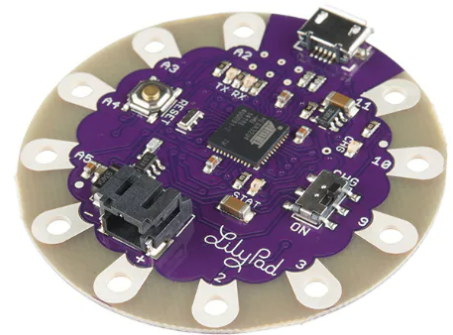
Product Overview

12-27-2021

For the most up-to-date information, visit www.mouser.com or the supplier's website.

Description

The LilyPad Arduino USB ATmega32U4 Board is an updated simple board that replaces the classic ATMega328 with the new ATMega32U4. The board runs a variation of the latest and greatest bootloader. A micro-USB cable is needed to program the LilyPad USB since the new IC has built-in USB support. The LilyPad USB is also officially supported in the Arduino IDE as of version 1.0.2. This board is a wearable e-textile technology developed by Leah Buechley. Each LilyPad was creatively designed to have large connecting pads to allow them to be sewn into clothing and are washaq1able.

This board operates at 3.3V and features a JST socket to directly connect a Li-Po battery for power. An on-board power switch allows you to turn it off. These boards were designed to streamline sewable projects by keeping things simple. You get more room to work while eliminating the need to sew a power supply. The LiPo battery is even rechargeable through the board, no more special external LiPo chargers required.
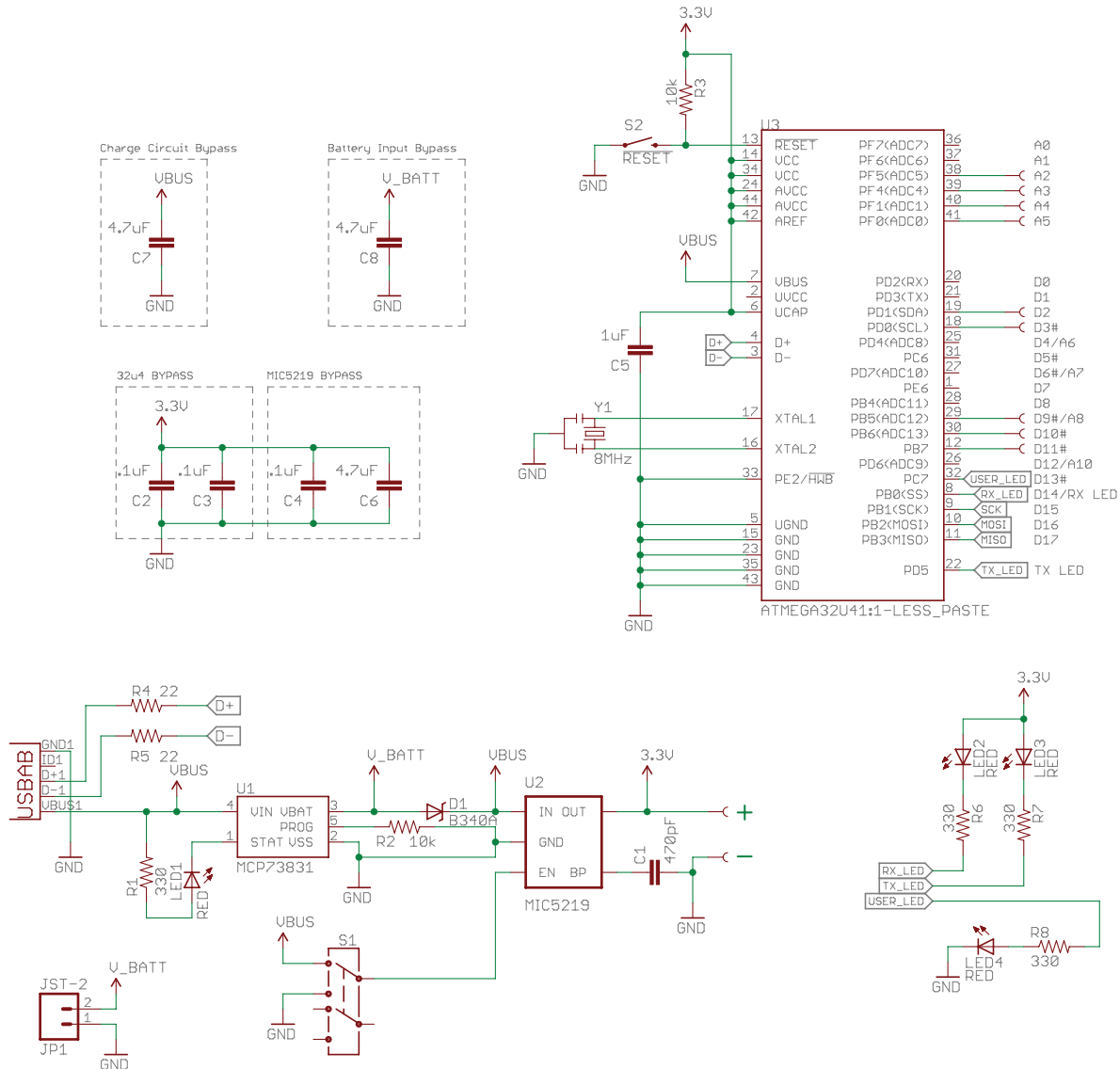
Features

- ATmega32U4 board with the Arduino bootloader
- 50mm outer diameter
- 0.8mm thin PCB

Additional Resources

- ATMega32U4 Datasheet
- Learn more about Sparkfun LilyPad

Schematic

Mouser Part Number

View Part

To learn more, visit https://www.mouser.com/new/sparkfun/sparkfun-lilypad-12049-arduino-usb/