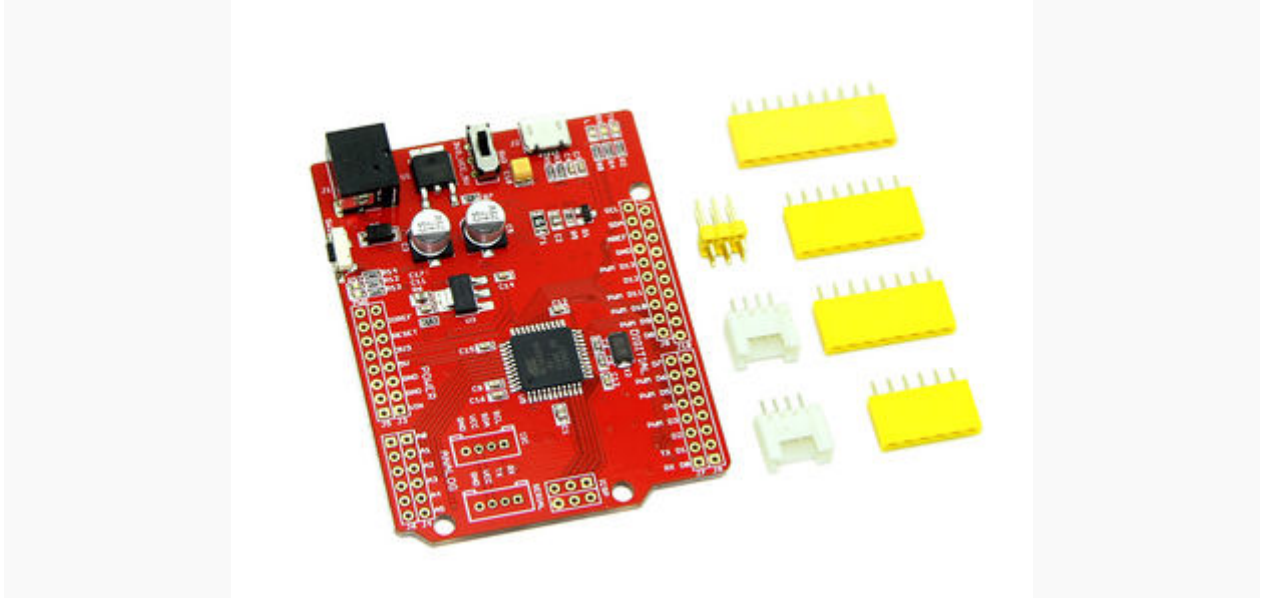


Seeeduino Lite



Seeeduino Lite is a microcontroller based on ATmega32U4. Just like Arduino Leonardo, it saves a secondary processor needed for USB to serial communication. And this allows Seeeduino Lite appear to computer as a USB device, like keyboard and mouse. Derived from Leonardo, we also merged custom details of Seeeduino series into Seeeduino Lite, like selectable operating voltage, onboard Grove connectors and so on. It has 20 digital I/Os (7 of which can output PWM), a micro 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 to get started.

Specifications

Microcontroller: ATmega32u4

Operating Voltage: 5V

Input Voltage (recommended): 7-12V

Input Voltage (limits): 6-20V

Digital I/O Pins: 20

PWM Channels: 7

Analog Input Channels: 12

DC Current per I/O Pin: 40 mA

DC Current for 3.3V Pin: 50 mA

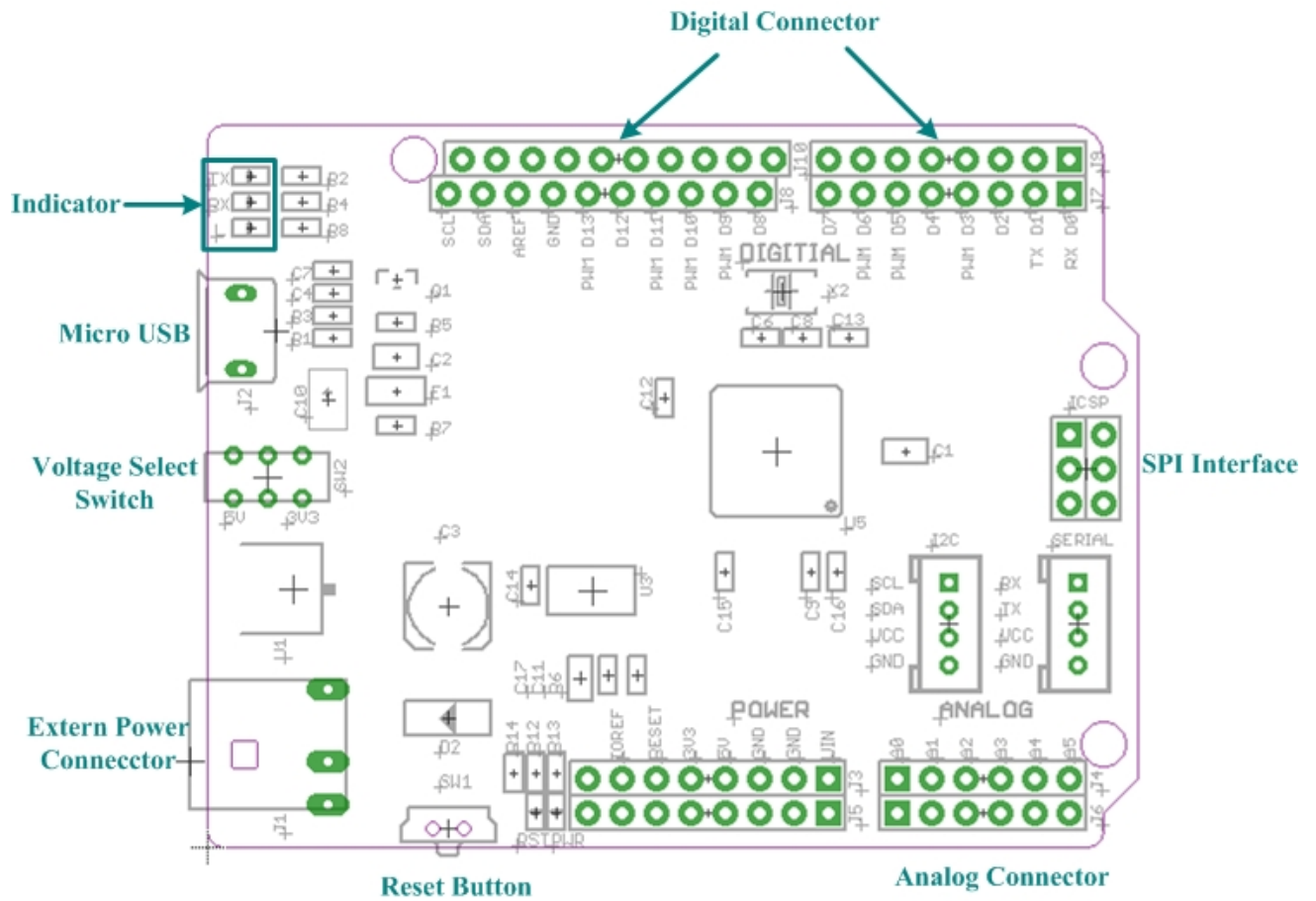
Flash Memory: 32 KB (ATmega32u4) of which 4 KB used by bootloader

SRAM: 2.5 KB (ATmega32u4)

EEPROM: 1 KB (ATmega32u4)

Clock Speed: 16 MHz

Interface



U1: 78M05 IC, Three-terminal positive voltage regulator.

U3: LD1117 IC, a Low Drop Voltage Regulator able to provide up to 800mA of Output Current.

U5: Atmega32U4 IC, 8-bit AVR Microcontroller with 32K Bytes of ISP Flash and USB Controller.