Overview

The Arduino Leonardo is a microcontroller board based on the ATmega32u4 (datasheet). 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, 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.

The Leonardo differs from all preceding boards in that the ATmega32u4 has built-in USB communication, eliminating the need for a secondary processor. This allows the Leonardo to appear to a connected computer as a mouse and keyboard, in addition to a virtual (CDC) serial / COM port. It also has other implications for the behavior of the board; these are detailed on the getting started page.

This version of the Leonardo comes without headers...

Summary

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

If you want to give a closer look to this board we advice you to visit the official Arduino Leonardo page in the Hardware Section.

Overview 1



Summary 2