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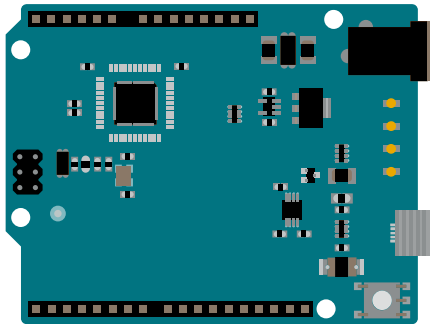
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Leonardo

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.



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Features **Tech Specs** Compatibility Suggested Libraries

Here you will find the technical specifications for the Arduino Leonardo.

Please note:

Help

If the Mouse or Keyboard library is constantly running, it will be difficult to program your board. Functions such as Mouse.move() and Keyboard.print() will move your cursor or send keystrokes to a connected computer and should only be called when you are ready to handle them.

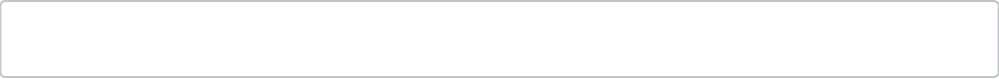


It is recommended to use a control system to turn this functionality on, like a physical switch or only responding to specific input you can control. When using the Mouse or Keyboard library, it may be best to test your output first using Serial.print(). This way, you can be sure you know what values are being reported. Refer to the Mouse and Keyboard examples for some ways to handle this.

Board	
Name	Arduino® Leonardo
SKU	A000057
Microcontroller	
ATmega32u4	
USB connector	
Micro USB (USB-B)	
Pins	
Built-in LED Pin	13



Analog input pins	12
PWM pins	7
Communication	
UART	Yes
I2C	Yes
SPI	Yes
Power	
I/O Voltage	5V
Input voltage (nominal)	7-12V
DC Current per I/O Pin	10 mA
Power Supply Connector	Barrel Plug
Clock speed	
Processor	ATmega32U4 16 MHz
Memory	



ATmega32U4	2.5KB SRAM, 32KB FLASH, 1KB EEPROM
Dimensions	
Weight	20 g
Width	53.3 mm
Length	68.6 mm

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