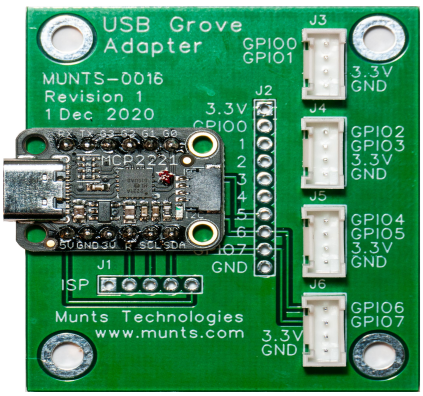
Connect Your PC or Mac to the *Grove System* with the *USB Grove Adapter*



MUNTS-0016 USB Grove Adapter

This USB peripheral module connects to your Linux, MacOS, or Windows computer. It acts as a USB raw HID ***Remote I/O Protocol*** (http://git.munts.com/libsimpleio/doc/RemoteIOProtocol.pdf) server, and brings out two ***Flexible I/O*** pins (and 3.3V and ground) to each of four ***Grove System*** (http://wiki.seeedstudio.com/Grove_System) connectors. The eight pins are also brought out to a 2.54 mm pitch header (not included). Each of the eight ***Flexible I/O*** pins can be configured as a digital input or a digital output. Some pins can also be configured as 10-bit analog inputs, or for I²C or SPI:

USB Grove Adapter Flexible I/O Pin Functions

Connector	GPIO	A/D	I²C	SPI	Header	MCP2221
Grove J3	GPIO0	AIN0			2	GP1
	GPIO1				3	GP0
Grove J4	GPIO2	AIN1		$\overline{SS}$	4	GP2
	GPIO3	AIN2		MOSI	5	GP3
Grove J5	GPIO4				6	RXD
	GPIO5				7	TXD
Grove J6	GPIO6	AIN3[1]	SCL	SCLK	8	SCL
	GPIO7	AIN4[1]	SDA	MISO	9	SDA

[1]Must be driven from a low impedance source to overcome the I²C pull-up resistor.

Open source sample programs and development libraries are available for Ada, C++, Free Pascal, and .Net for Windows, MacOS and Linux are included in the ***Linux Simple I/O Library*** project at: https://github.com/pmunts/libsimpleio.

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