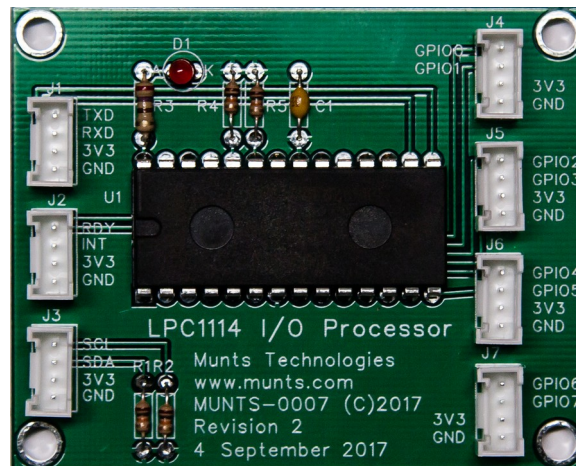


# Give Your Grove System Some *Flexible I/O* with the Grove I/O Processor Module

Patent Pending



This module brings out two **Flexible I/O** pins to each of 4 **Grove System** connectors. Each of the eight **Flexible I/O** pins can be configured by software as a digital input (with optional pull-up or pull-down resistor), a digital output (open drain or push-pull), a 10-bit analog input, or a special function:

## Grove I/O Processor Module Flexible I/O Pin Functions

Grove J4	GPIO0	AD1	LEGORC0	CT32B1 CAP0		
	GPIO1	AD2	LEGORC1	CT32B1 MAT0	PWM1	Servo1
Grove J5	GPIO2	AD3	LEGORC2	CT32B1 MAT1	PWM2	Servo2
	GPIO3	AD4	LEGORC3	CT32B1 MAT2	PWM3	Servo3
Grove J6	GPIO4	AD5	LEGORC4	CT32B1 MAT3		
	GPIO5		LEGORC5	CT32B0 CAP0		
Grove J7	GPIO6		LEGORC6			
	GPIO7		LEGORC7		PWM4	Servo4

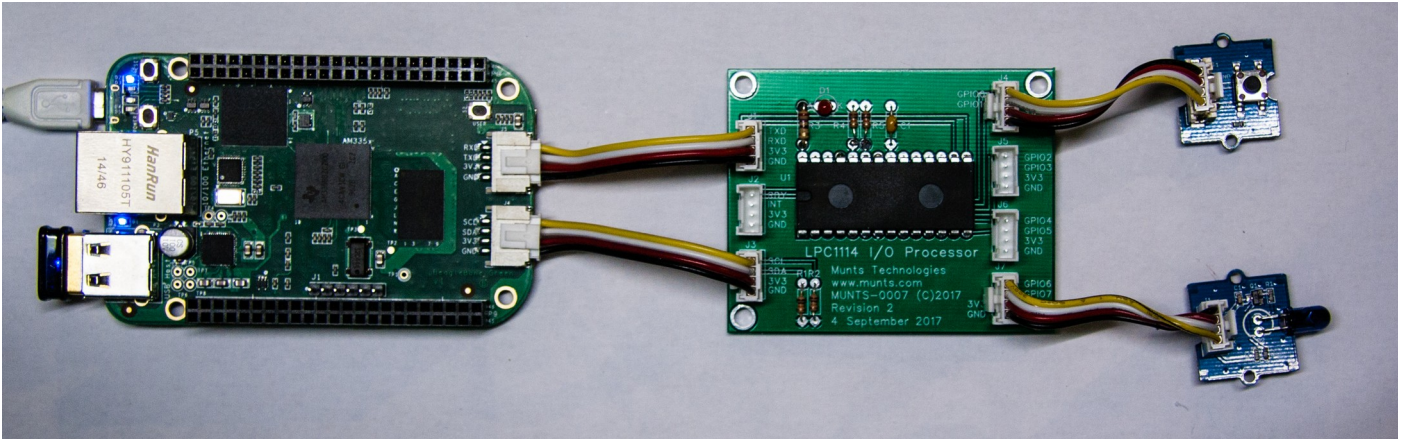
This **Flexible I/O Module** is particularly suitable for the **Seeed Studios Beagle Bone Green** and is fully software compatible with the **Raspberry Pi LPC1114 I/O Processor Expansion Board**:

<http://git.munts.com/rpi-mcu/expansion/LPC1114/>

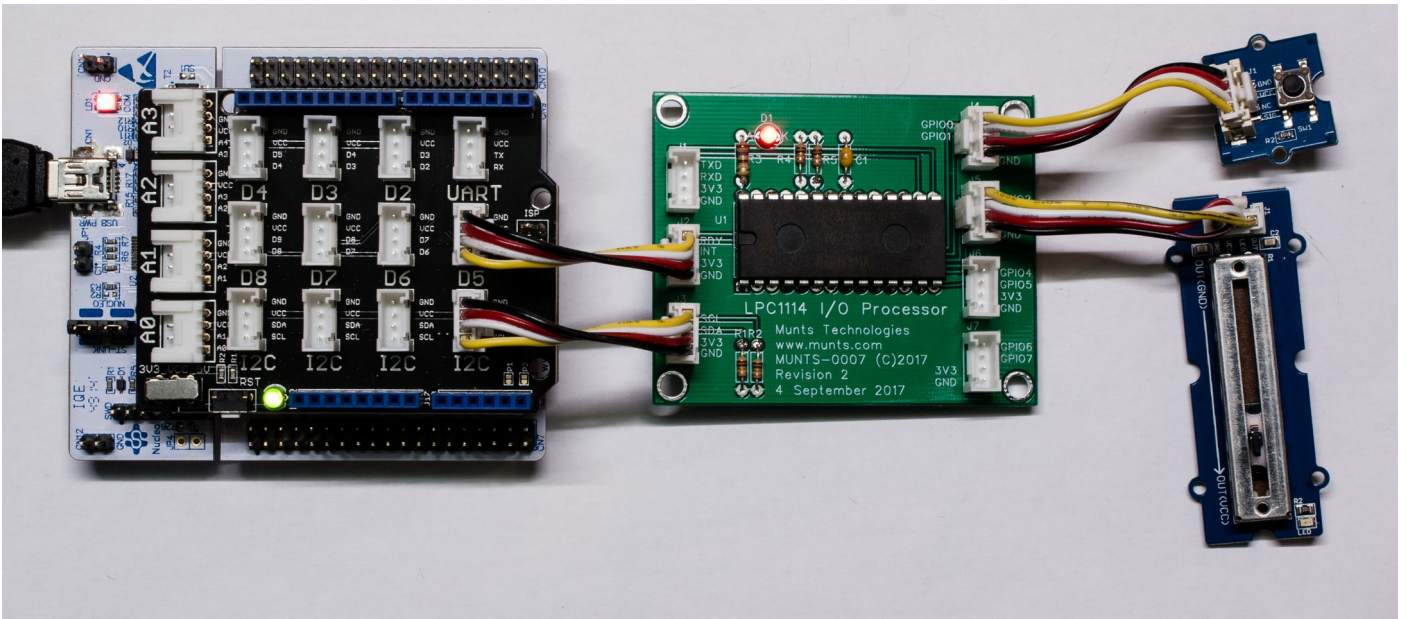
Sample programs and development libraries are available for Linux (Ada, C, C++, C#, Java, Pascal, and Python), .Net (C#), Arduino (C++), and Mbed OS (C++).

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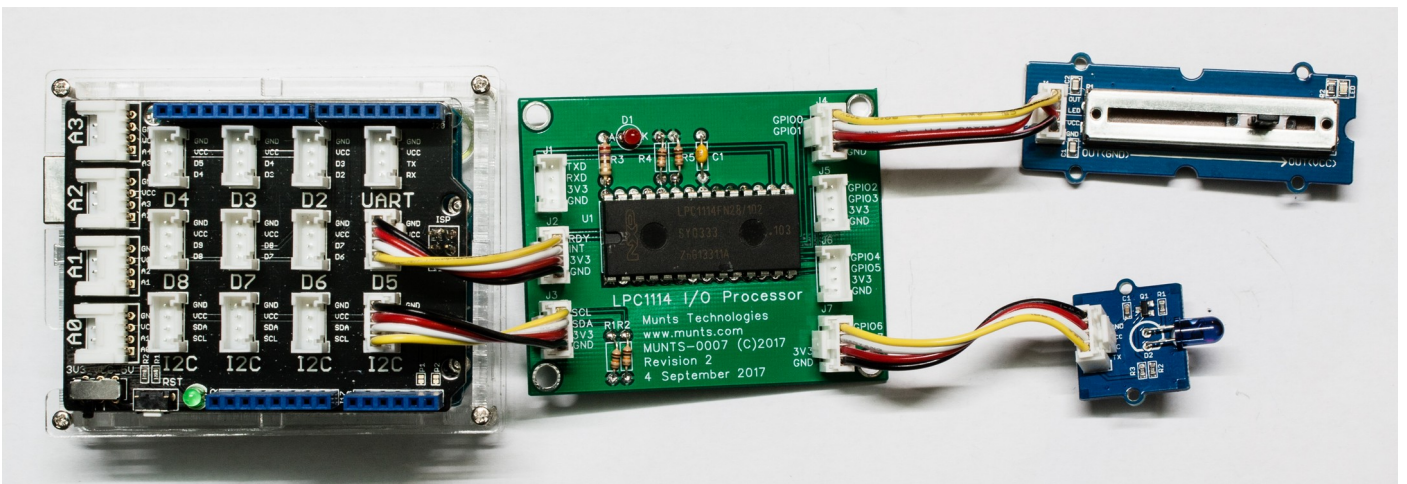
# Application Examples



**Grove I/O Processor Module with BeagleBone Green running Linux**



**Grove I/O Processor Module with Nucleo-F411RE running Mbed OS 5**



**Grove I/O Processor Module with Arduino Uno Rev 3**