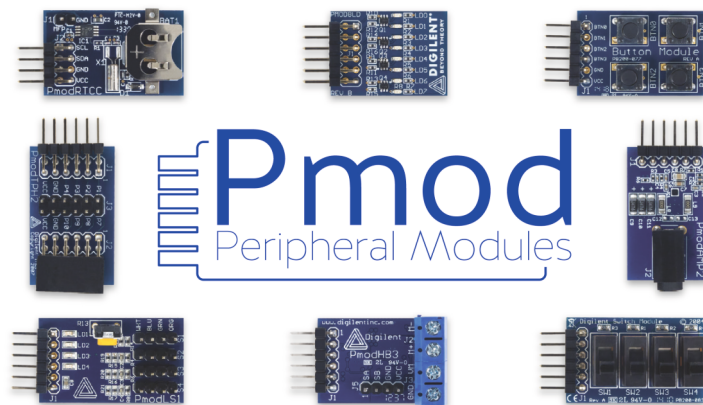


## Pmod™ Peripheral Modules

### The industry's most flexible add-on board standard

Open, flexible and thoughtfully designed, Pmod is an established add-on board standard offering an ideal way to bridge programmable logic and microcontroller boards to the physical world. With our line of over 80 modules and counting, users can easily augment the capabilities of system boards by adding sensors, actuators, communication, user input and much more, all while staying within the Pmod Ecosystem. From rapid prototyping to learning the basics, it is our goal to get users up and running with useful data in just a matter of minutes.



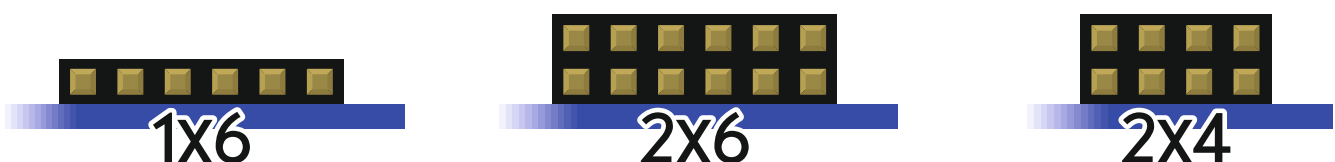
#### How do they work?

Pmods communicate with system boards using 6, 8 or 12-pin connectors that are designed to plug directly into Pmod host ports. Take advantage of standard interfaces including SPI, I<sup>2</sup>C, UART, GPIO, H-bridge and I<sup>2</sup>S.



#### How do I use them?

Through the Pmod Standard users know what to expect from their Pmod. The Pmod Standard lays out guidelines for form factor, communication protocols and interface specification, as well as access to a target audience through reference manuals, code examples, user guides, and technical support.



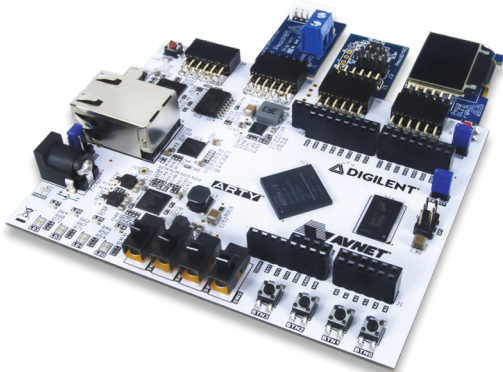
[reference.digilentinc.com/pmod](http://reference.digilentinc.com/pmod)

[www.digilentinc.com](http://www.digilentinc.com)

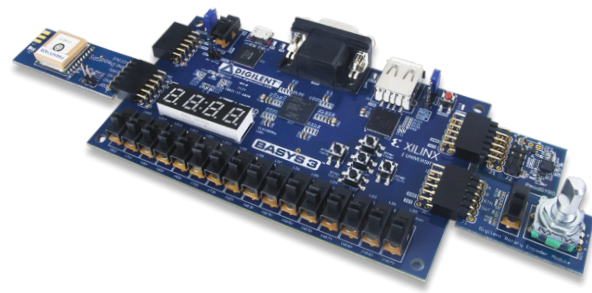
## Pmod™ Peripheral Modules - The Pmod Ecosystem

The Pmod Ecosystem: Bridging your FPGA or microcontroller board to the physical world through hardware design and software support. It's our goal to get users up and running with useful data in just a matter of minutes. Need some help? You'll find libraries and example designs on the Digilent wiki.

Pmod connectors are designed to plug directly into Pmod host ports on all Digilent FPGA boards.

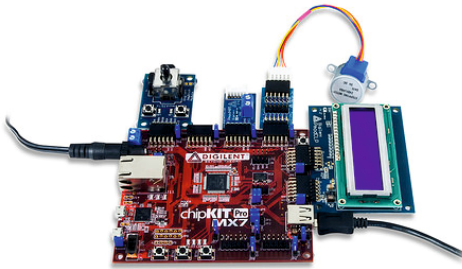


Arty board with four 2x6-pin Pmod host ports

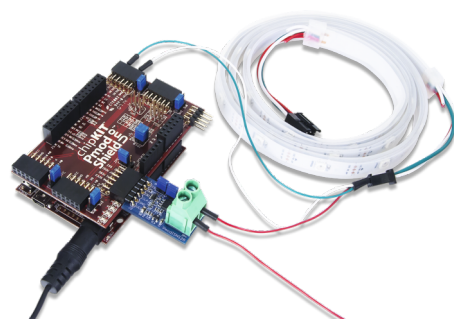


Basys 3 board with four 2x6-pin Pmod host ports

You can find Pmod host ports on our microcontroller boards as well.



Create embedded systems with input and output Pmods and Pro Mx7



The Pmod Shield adds five 2x6-pin Pmod host ports to the Uc32

We also carry a growing line of Pmod accessories and related



PCB ruler, Pmod clip, UART crossover cable, 6 & 12-pin Pmod extension cables, 6-pin MTE cable, SMA-to-aligator cable, DC

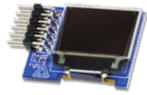
## Pmod™ Peripheral Modules - Pmods by Function

Our ample assortment of Pmods are grouped into six different categories based on their functionality; input, output, communication, connector, power, and miscellaneous. These categories contain audio amplifiers, GPS receivers, seven-segment displays, accelerometers, analog-to-digital converters, and much more!

PmodACL



PmodOLEDRgb



PmodWiFi



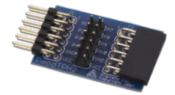
PmodCON4



PmodISNS20



PmodTPH2



### Input

These Pmods primarily collect information about the outside world, either inherently like the PmodACL or those that require a physical input such as the PmodKYPD, and submit the information to the host board by using their assigned communication protocol.

### Output

These Pmods primarily output information that was given to them by the host board. Examples of this style of Pmod include visual Pmods such as the PmodCLS, the PmodHB5 to drive motors, and the PmodDA4 to get a desired analog output.

### Communication

These Pmods are capable of sending and receiving data to communicate with a host board. By enabling access to an outside source or system, communication Pmods augment the capabilities of any project; internet access with the PmodWiFi, additional flash memory through the PmodSF2, even an external serial port with the PmodRS232!

### Connector

Connector Pmods are designed to offer a solution for mechanical connectivity, allowing the user to choose a Pmod based on its specific application, such as the PmodCON4, and properly connect between an external source and the host system.

### Power

These Pmods provide a hassle-free approach to routing external power to an outside component while protecting the host board from damage.

### Miscellaneous

The Pmods within this category have unique characteristics and extra peripheral functions that set them apart from the standard classification.