## 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.
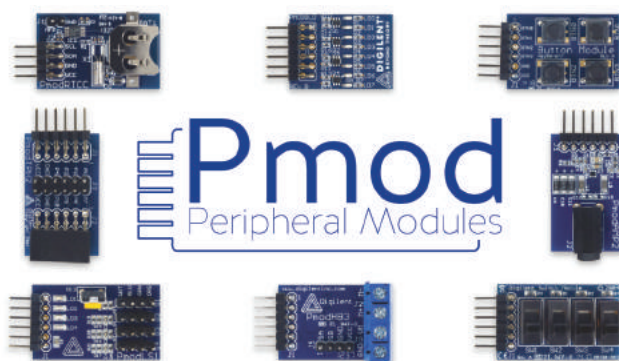
How do they work?

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, I²C, UART, GPIO, H-bridge and I²S.

SPI   I²C   UART   GPIO   H-bridge   I²S

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.

1x6   2x6   2x4

reference.digilentinc.com/pmod

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
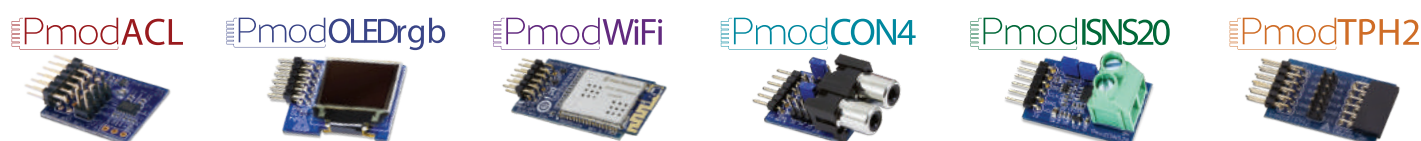
Input

These Pmods primarily collect information about the outside world, either inherently like the Pmod ACL or those that require a physical input such as the PmodK YPD, 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 Pmod CLS, the PmodHB5 to drive motors, and the Pmod DA4 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 Pmod WiFi, additional flash memory through the Pmod SF2, even an external serial port with the Pmod RS232!

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 Pmod CON4, 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.