

Pi 3 click shield

PID: MIKROE-2756



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By adding two mikroBUS™ sockets to your Raspberry Pi 3, the **Pi 3 click shield** allows you to experiment with hundreds of click boards™ from our ever expanding range.

WiFi, Lora, Bluetooth, GSM, GPS, RFID, OLED, speech recognition, environmental sensors, movement sensors, biosensors, LEDs, relays, — you name it, we got it!

The **Pi 3 click shield** is compatible with Raspberry Pi 3 model B, 2 B, 1 A+ and B+.

Make your Raspberry Pi® compatible with click boards™

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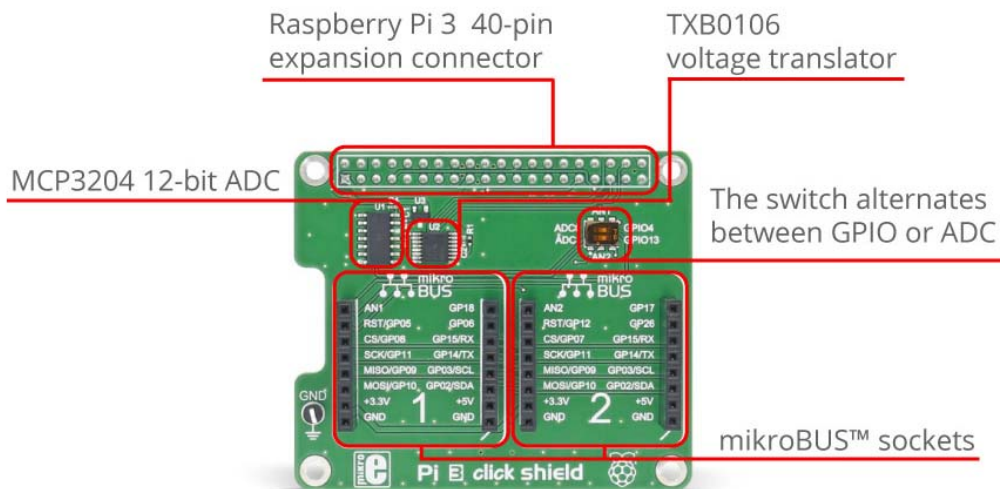
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The shield has an onboard ADC which enables the measuring of the analog levels. Since the Raspberry Pi® doesn't have an analog pin on the expansion connector, by adding an ADC we've enabled the usage of any click board™ from our offer.

ADC onboard is MCP3204 12-bit Analog-to-Digital Converter from Microchip. It also has a switch selector which allows the pin on the mikroBUS™ to be directed to GPIO or to the ADC. Because of the reference voltage which is 4.096V, the ADC works on 5V, and since the Raspberry Pi® GPIO voltage level is 3.3V, voltage translator is needed. That's why we've included TXB0106 voltage translator from Texas Instruments.

This shield has two mikroBUS™ sockets so that you can add hundreds click boards™ from our ever expanding range.



The package includes single 2x20 female sockets and 2x12mm distancer with 2 screws.

Software examples for click boards™ are available on Libstock, giving you a repository of working code - a great starting point for your own projects.

Pi 3 Model B pinout

Pi 3 Model B has the same layout as the Pi 1 Model A+, Pi 1 B+ and Pi 2 Model B.



Picture on the right shows Pi 3 click shield connected to the Raspberry Pi® 3 model B, picture on the left shows the connected shield along with two click boards™: Ozone 2 and GNSS 5 click.

Software demos

Along with Pi 3 click shield, we are providing examples of usage for SPI, I2C and UART peripherals for our click boards™. They are written in Python programming language. There is also an example of usage for the ADC integrated on the Pi 3 shield.

More details about examples and examples code can be found on our Libstock and GitHub pages.

Type	Shield
Applications	Pi 3 click shield allows you to use click boards on your Raspberry Pi®
On-board modules	Two mikroBUS™ sockets, MCP3204 12-bit Analog-to-Digital converter (ADC), 4.096V reference voltage
Key Features	GND Oscilloscope probe pin. Four mounting holes.
Input Voltage	3.3V or 5V
Compatibility	Raspberry Pi

<https://shop.mikroe.com/pi-3-click-shield> 10-18-17