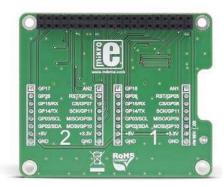


Pi 3 click shield

PID: MIKROE-2756







Pi 3 click shield

By adding two mikroBUSTM sockets to your Raspberry Pi 3, the **Pi 3 click shield** allows you to experiment with hundreds of click boardsTM 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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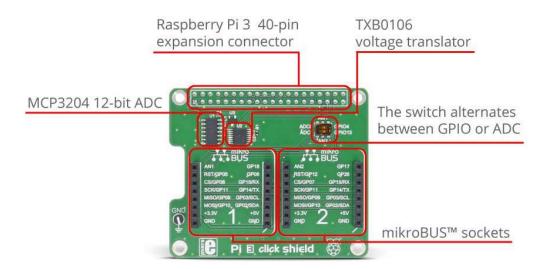
WiFi, Lora, Bluetooth, GSM, GPS, RFID, OLED, speech recognition, environmental sensors, movement sensors, biosensors, LEDs, relays, — you name it, we got it!

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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 boardTM 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 mikroBUSTM 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 mikroBUSTM sockets so that you can add hundreds click boardsTM from our ever expanding range.



The package includes single 2x20 female sockets and 2x12mmm distancer with 2 screws.

Software examples for click boardsTM are available on Libstock, giving you a repository of working ode - 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 boardsTM: 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 boardsTM. They are written in Python programing 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 TM 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