



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Pi 3 click shield

PID: MIKROE-2756



Pi 3 click shield

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™

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.

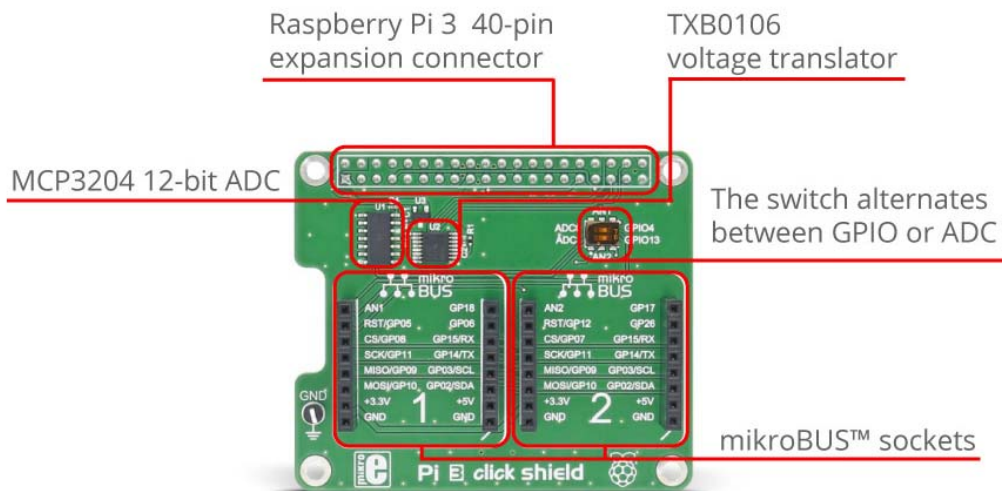
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The shield has an onboard ADC which enables the measuring of the analog levels. Since the Raspberry Pi® doesn't have an analog pin on the expansion connector, by adding an ADC we've enabled the usage of any click board™ from our offer.

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