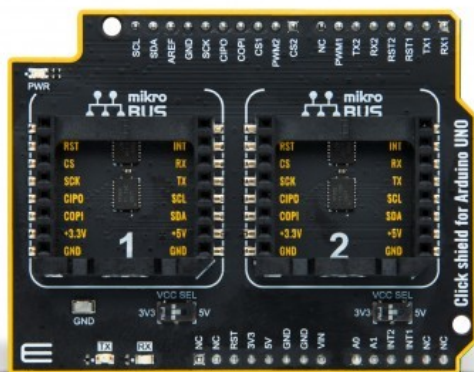


[Click shield for Arduino UNO](#)



PID: MIKROE-5739

Click Shield for Nucleo-64

Mikroe produces entire development toolchains for all major microcontroller architectures.

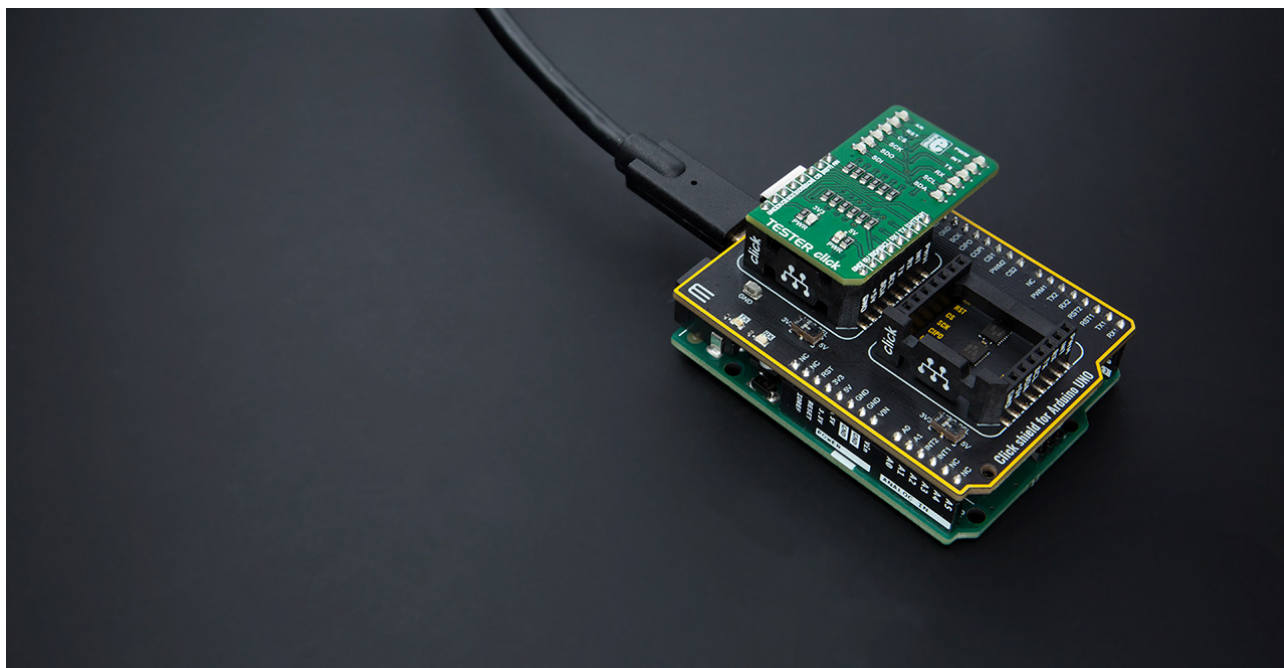
Committed to excellency, we are dedicated to helping engineers bring the project development up to speed and achieve outstanding results.



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OHSAS 18001: 2008 certification of occupational health and safety management system.



ISO 9001: 2015 certification of quality management system (QMS).



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Overview

Enhance your development board's capabilities effortlessly with the remarkable Click Shield for Arduino UNO. Explicitly designed to complement the [Arduino UNO](#) pinout, our Click Shield empowers you to unlock a world of expanded functionalities. The Arduino Uno, a microcontroller board based on the ATmega328P, provides an affordable and flexible way for users to try out new concepts and build prototypes with the ATmega328P microcontroller from various combinations of performance, power consumption, and features.

Equipped with two versatile mikroBUS™ sockets, this shield serves as the gateway to our vast collection of Click boards™. Immerse yourself in a treasure trove of possibilities as we provide an extensive range, including sensors, WiFi transceivers, motor control modules, audio amplifiers, and more. From essential components to specialized tools, we have everything you need to fuel your creative endeavors. Unleash the full potential of your projects with the Click Shield for Arduino UNO, where innovation knows no bounds.

Note: Arduino UNO board is not included in the package.

CLICK BOARD
COMBINATIONS

Main features

Click Shield for Arduino UNO has two proprietary mikroBUS™ sockets, allowing all the Click board™ devices to be interfaced with the Arduino UNO board without effort. This way, MikroE allows its users to add any functionality from our ever-growing range of Click boards™, such as WiFi, GSM, GPS, Bluetooth, ZigBee, environmental sensors, LEDs, speech recognition, motor control, movement sensors, and many more. More than 1450 Click boards™, which can be stacked and integrated, are at your disposal.

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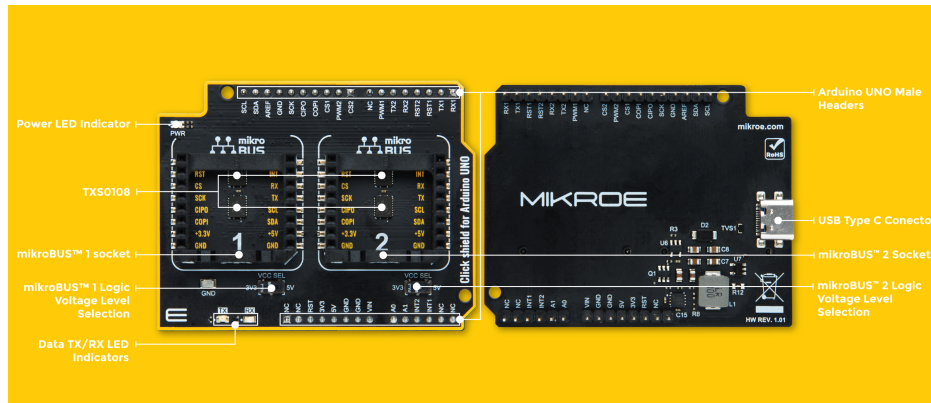
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The Arduino Uno, a microcontroller board based on the ATmega328P, provides an affordable and flexible way for users to try out new concepts and build prototypes with the ATmega328P microcontroller from various combinations of performance, power consumption, and features. The Arduino Uno has 14 digital input/output pins (of which six can be used as PWM outputs), six analog inputs, a 16 MHz ceramic resonator (CSTCE16M0V53-R0), a USB connection, a power jack, an ICSP header, and a reset button. Most of the ATmega328P microcontroller pins are brought to the IO pins on the left and right edge of the board, which are then connected to two existing mikroBUS™ sockets.

This Click Shield also has several switches that perform functions such as selecting the logic levels of analog signals on mikroBUS™ sockets and selecting logic voltage levels of the mikroBUS™ sockets themselves. Besides, the user is offered the possibility of using any Click board™ with the help of existing bidirectional level-shifting voltage translators, regardless of whether the Click board™ operates at a 3.3V or 5V logic voltage level.

Once you connect the Arduino UNO board with our Click Shield for Arduino UNO, you can access hundreds of Click boards™, working with 3.3V or 5V logic voltage levels. Our Click boards™ are equipped with a library containing functions and example codes for MIKROE compilers available on LibStock, which can be used, as a reference, for further development.

Power your inventions

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When the USB type C connector is connected to the Click Shield, the PWR diode will glow Blue, and at this setup, the connected Arduino UNO baseboard and two mikroBUS™ sockets will be powered from it.

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When the USB is connected to the Arduino UNO board, the PWR diode will glow Green, and at this setup, the Arduino UNO baseboard itself will be supplied, and it will provide power to the Click Shield, including two mikroBUS™ sockets.

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When the USB type C connector is connected to the Click Shield, and the other USB is connected to the Arduino UNO board, the PWR diode will glow Cyan, and at this setup, the mikroBUS™ sockets are powered from the Type C connector.

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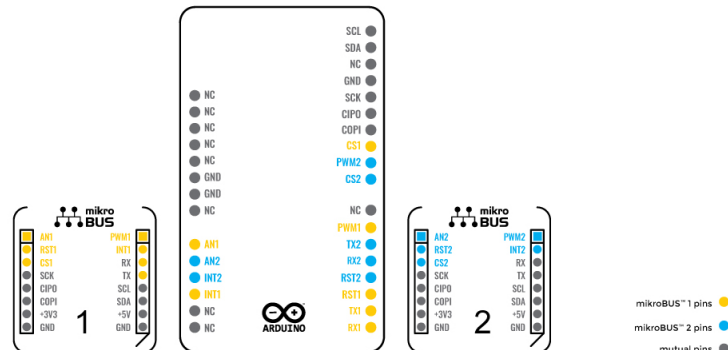


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Arduino UNO TO MIKROBUS™ PINOUT



Specifications

Type	Adapter,Shield
Applications	Click Shield for Arduino UNO allows you to use Click boards™ on your Arduino UNO board.
On-board modules	2x mikroBUS™ sockets, connector for connecting compatible Arduino UNO board, four TXS0108 level-shifting voltage translators, power part for converting 5V USB to the 3.3V
Interface	Analog,GPIO,I2C,PWM,SPI,UART
Compatibility	Arduino,mikroBUS™

Resources

[mikroBUS™](#)

[mikroSDK](#)

[Click board™ Catalog](#)

[Click boards™](#)

Downloads

[Click shield for Arduino UNO schematic](#)

[Click shield for Arduino UNO 2D and 3D files](#)

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