

## USB MUX Click



PID: MIKROE-5748

**USB MUX Click** is a compact add-on board with a high-bandwidth switch designed for switching and isolating high-speed USB 2.0 signals in systems with limited USB I/Os. This board features the [TS3USB30E](#), a USB 2.0 1:2 multiplexer/demultiplexer switch with a single enable from [Texas Instruments](#). It offers a wide bandwidth of 900MHz that allows signals to pass with minimum edge and phase distortion. The USB MUX Click is designed to multiplex differential outputs from a USB host device to one of two corresponding outputs or two different hosts to one corresponding output. This Click board™ makes the perfect solution for the development of multi-purpose signal-switching devices, portable electronics, and other applications with limited USB I/Os.

USB MUX Click is supported by a [mikroSDK](#) compliant library, which includes functions that simplify software development. This [Click board™](#) comes as a fully tested product, ready to be used on a system equipped with the [mikroBUS™](#) socket.

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.



ISO 27001: 2013 certification of informational security management system.  
 ISO 14001: 2015 certification of environmental management system.  
 OHSAS 18001: 2008 certification of occupational health and safety management system.



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

## Specifications

|                  |   |
|------------------|---|
| Type             | USB   |
| Applications     | Can be used for the development of multi-purpose signal-switching devices, portable electronics, and other applications with limited USB I/Os   |
| On-board modules | TS3USB30E - USB 2.0 multiplexer/demultiplexer switch from Texas Instruments   |
| Key Features     | High bandwidth 1:2 switch, wide bandwidth, support USB 1.1 and high-speed USB 2.0 standards, ESD-protected, single enable, low power consumption, supports partial power-down mode, one host - two outputs, two different hosts- one output, and more |
| Interface        | GPIO  |
| ClickID          | Yes   |
| Compatibility    | mikroBUS  |
| Click board size | L (57.15 x 25.4 mm)   |
| Input Voltage    | 3.3V  |

## Resources

[mikroBUS™](#)

[mikroSDK](#)

[Click board™ Catalog](#)

[Click Boards™](#)

## Downloads

[USB MUX click example on Libstock](#)

[USB MUX click 2D and 3D files](#)

[TS3USB30E datasheet](#)

[USB MUX click schematic](#)

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.



ISO 27001: 2013 certification of informational security management system.  
 ISO 14001: 2015 certification of environmental management system.  
 OHSAS 18001: 2008 certification of occupational health and safety management system.



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