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USB UART ISO Click

PID: MIKROE-5815

USB UART ISO Click is a compact add-on board that offers a completely isolated differential pair of lines of the USB physical interface. This board features the ISOUSB111, a full/low-speed isolated USB repeater from Texas Instruments. It is a USB 2.0-compliant device that supports low-speed (1.5Mbps) and full-speed (12Mbps) signaling, USB On-The-Go (OtG), and Type-C Dual Role Port (DRP). In addition, this Click board™ comes with the FT232R, a USB UART IC from FTDI, making it a complete USB-to-UART isolated solution. This Click board™ makes the perfect solution for the development of USB hub, host, peripheral, and cable isolation applications.

USB UART ISO 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.

Specifications

Type	Isolators,USB
Applications	Can be used for the development of USB hub, host, peripheral, and cable isolation applications
On-board modules	ISOUSB111 - full/low-speed isolated USB repeater from Texas Instruments FT232R - USB to UART bridge from FTDI
Key Features	USB 2.0-compliant, supports low and high-speed signaling, supports automatic speed and connection detection, supports automatic role reversal for USB On-the-Go, and Type-C dual role port, insulation barrier for high voltage protection, entire USB protocol is handled on the UART chip, and more
Interface	UART,USB
ClickID	Yes
Compatibility	mikroBUS
Click board size	L (57.15 x 25.4 mm)
Input Voltage	3.3V or 5V

Resources

mikroBUS™

mikroSDK

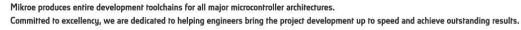Click board™ Catalog

Click boards™

Downloads

USB UART ISO click example on Libstock

ISOUSB111 datasheet

FT232R datasheet

USB UART ISO click 2D and 3D files

USB UART ISO click schematic