

RS485 Isolator 3 Click



PID: MIKROE-5597

RS485 Isolator 3 Click is a compact add-on board that provides electrical isolation and signal conditioning for RS485 communication systems. This board features the [ADM2763E](#), a 500kbps, 5.7kV RMS, signal-isolated RS-485 transceiver from [Analog Devices](#). The ADM2763E is protected against $\geq \pm 12$ kV contact and $\geq \pm 15$ kV air IEC 61000-4-2 electrostatic discharge (ESD) events on the RS485 A, B, Y, and Z pins. Besides receiver/driver control pins, it also features a receiver cable invert pin to quickly correct the reversed cable connection on the A and B receiver bus pins while maintaining complete receiver fail-safe performance. This Click board™ is suitable for many industrial and automation applications that require insulation against working voltages of 1060V RMS and 1500VDC for the device's lifetime.

RS485 Isolator 3 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 | Isolators,RS485 |
| Applications | Can be used for many industrial and automation applications that require insulation against working voltages of 1060V RMS and 1500VDC for the device's lifetime |
| On-board modules | ADM2763E - 5.7kV RMS signal isolated RS-485 transceiver from Analog Devices |
| Key Features | Low radiated emissions, receiver cable inversion smart feature, ESD protection on the RS485 A, B, Y, and Z bus pins, low speed 500kbps data rate, flexible power supply inputs, PROFIBUS® compliant for 5V VDD2, built-in receiver fail-safe for the bus idle condition, allows adding a 120Ω load to the RS485 receiver, and more |
| Interface | UART |
| 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

[RS485 Isolator 3 click example on Libstock](#)

[RS485 Isolator 3 click schematic](#)

[ADM2763E datasheet](#)

[RS485 Isolator 3 click 2D and 3D files](#)

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