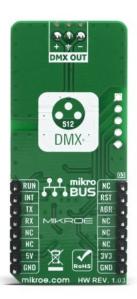


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## **DMX Click**





PID: MIKROE-4130

DMX Click is a device used to establish communication between the MCU and equipment that uses the DMX512-A communication protocol. Unlike many similar solutions on the market, this unique device allows using the common UART data format, which is converted to an appropriate DMX512 format by the powerful PIC18F26K42 MCU from Microchip. This MCU has an integrated DMX peripheral, making it a perfect solution for such application. To allow interfacing with the DMX bus, DMX Click uses the RS485 transceiver from Analog Devices. Besides providing single-ended to differential signal conversion, this IC also provides the complete galvanic isolation from the DMX bus, without using any additional isolation components.

DMX Click is supported by a mikroSDK compliant library, which includes functions that simplify software development. This Click board  $^{\text{\tiny TM}}$  comes as a fully tested product, ready to be used on a system equipped with the mikroBUS  $^{\text{\tiny TM}}$  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.









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## **Specifications**

Туре	DMX
Applications	Stage lighting applications, building and development of custom lighting applications for all kinds of stage lighting use cases.
On-board modules	ADM2862E - Power Isolated RS-485 Transceiver from Analog Devices PIC18F26K42 - Low Power, High Performance MCU with XLP Technology, from Microchip
Key Features	Providing single-ended to differential signal conversion, galvanic isolation from the DMX bus, can be operated in both MASTER and SLAVE modes
Interface	UART,GPIO
Compatibility	mikroBUS
Click board size	L (57.15 x 25.4 mm)
Input Voltage	3.3V,5V

## Resources

mikroBUS™ Standard specification

LibStock: mikroSDK

Click board catalog

Click boards™ Standard Page

## **Downloads**

**DMX click example on Libstock** 

DMX click 2D and 3D files

ADM2862E datasheet

**DMX click schematic** 

PIC18F26K42 datasheet

**DMX Click User Manual** 

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health and safety management system.