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IrDA 4 Click

PID: MIKROE-5686

IrDA 4 Click is a compact add-on board that provides a cost-effective solution for sending and receiving IR serial data. This board features the TFBS4650, an infrared transceiver from Vishay Semiconductors. The transceiver includes a PIN photodiode, an infrared emitter, and a low-power integral circuit and complies with the IrDA physical layer specification. In addition, it features the MCP2120, an infrared encoder/decoder from Microchip that sends and receives IR serial data between the infrared transceiver module and the host MCU. This Click board™ makes the perfect solution for the development of short-distance communication and data transfer or in use in environments where RF is problematic.

IrDA 4 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.

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Specifications

Type	Optical
Applications	Can be used for the development of short-distance communication and data transfer, or in use in environments where RF is problematic
On-board modules	TFBS4650 - infrared transceiver from Vishay Semiconductors
Key Features	Simple to use UART to IrDA communication, the onboard encoder/decoder takes care of all the communication between the IR transceiver and the MCU, selecting voltages independently for the logic level, IRED anode, and the internal transceiver drive, compliant to the IrDA physical layer, 1m distance, and more
Interface	UART
ClickID	Yes
Compatibility	mikroBUS
Click board size	M (42.9 x 25.4 mm)
Input Voltage	3.3V or 5V

Resources

[mikroBUS™](#)

[mikroSDK](#)

[Click board™ Catalog](#)

[Click boards™](#)

[ClickID](#)

Downloads

[IrDA 4 click example on Libstock](#)

[IrDA 4 Click schematic](#)

[IrDA 4 click 2D and 3D files](#)

[TFBS4650 datasheet](#)

[MCP2122 datasheet](#)