I2C Isolator Click

PID: MIKROE-1878

RS Product Code: [136-0724](136-0724)

I2C Isolator click carries ISO1540, a low-power, bidirectional isolator compatible with I2C interfaces. On the board, the Texas Instruments chip is connected to two sets of I2C pins, one on the mikroBUS connector (SDA, SCL), the other on the upper edge of the board (SCL2, SDL2). ISO1540 uses a silicon dioxide barrier that separates the logic input and output buffers. Bidirectional isolators based on TI's Capacitive Isolation technology have many advantages over opto-couplers (performance, size, power consumption etc.). When used together with isolated power supplies, they block high voltages, isolate grounds, and prevent interference from noise currents.

Specification

Product Type	I2C isolator
Applications	SMBus and PMBus Interfaces, Open-drain networks, Motor Control systems, Battery Management, I2C Level Shifting etc.
On-board modules	ISO1540 Bidirectional isolator
Key Features	Two sets of I2C pins. Two isolated bidirectional channels for clock and data lines
Key Benefits	Having two isolated bidirectional channels for clock and data lines, I2C isolator click is suitable for use in applications that have multiple masters
Interface	I2C
Power Supply	3.3V or 5V
Compatibility	mikroBUS
Click board size	S (28.6 x 25.4 mm)
Weight	30g

Downloads

[I2C Isolator - User manual](#)