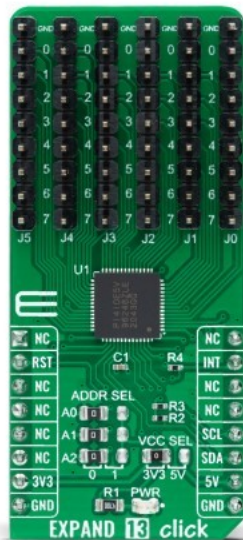


Expand 13 Click



PID: MIKROE-4887

Expand 13 Click is a compact add-on board that contains a multi-port I/O expander. This board features the [PI4IOE5V96248](#), a 48-bit general-purpose I/O expander providing remote I/O expansion for most MCU's families from [Diodes Incorporated](#). The PI4IOE5V96248 comes in a 6-channel configuration and allows easy addition of I/O through a standard I2C serial interface. It has a built-in level shifting feature that makes it highly flexible in power supply systems where communication between incompatible I/O voltages is required. It also contains a reset and interrupts feature that informs the MCU of incoming data on its ports without communicating via the serial bus. This Click board™ provides a simple solution when additional I/Os are needed while keeping interconnections to a minimum in system monitoring applications, industrial controllers, portable equipment, and many more.

Expand 13 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	Port expander
Applications	Can be used in system monitoring applications, industrial controllers, portable equipment, and many more
On-board modules	PI4IOE5V96248 - 48-bit low-voltage translating general-purpose remote I/O expander from Diodes Incorporated
Key Features	Remote I/O pins that default to inputs at Power-Up, compliant with the I2C-bus Fast and Standard modes, 5V tolerant I/Os, 25mA sink capability for directly driving LEDs, programmable slave addresses, and more
Interface	I2C
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

[Expand 13 click 2D and 3D files](#)
[PI4IOE5V96248 datasheet](#)
[Expand 13 click schematic](#)
[Expand 13 click example on Libstock](#)

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