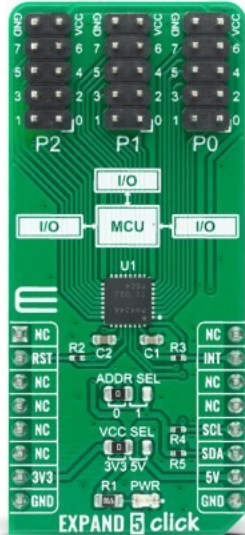


## EXPAND 5 Click



PID: MIKROE-4186

**EXPAND 5 Click** features a low-voltage 24-bit I2C and SMBus I/O expander. This 24-bit I/O expander is designed to provide general-purpose remote I/O expansion for most microcontroller families via the I2C serial interface. This Click board™ features the TCA6424A from Texas Instruments, and it operates over a power supply voltage range of 1.65V to 5.5V. Wide voltage range allows the TCA6424A to interface with next-generation microprocessors and microcontrollers on the SDA/SCL side, where supply levels are dropping down to conserve power. The P-port outputs have high-current sink capabilities for directly driving LEDs while consuming low device current.

EXPAND 5 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 to provide general-purpose remote I/O expansion for most microcontroller families via the I2C serial interface.
On-board modules	TCA6424A
Key Features	24-bit, 400-kHz I2C port expander, wide voltage range, high-current sink outputs
Interface	GPIO,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 5 click 2D and 3D files](#)

[TCA6424A datasheet](#)

[EXPAND 5 click schematic](#)

[EXPAND 5 click example on Libstock](#)

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