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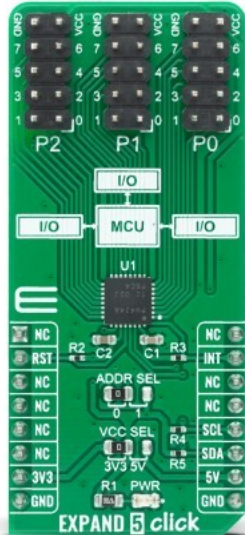www.mikroe.com

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.

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™ Standard specification

LibStock: mikroSDK

Click board catalog

Click boards™ Standard Page

Downloads

EXPAND 5 click 2D and 3D files

TCA6424A datasheet

EXPAND 5 click schematic

EXPAND 5 click example on Libstock