MIKROELEKTRONIKA D.O.O, Batajnički drum 23, 11000 Belgrade, Serbia
VAT: SR105917343 Registration No. 20490918
Phone: + 381 11 78 57 600 Fax: + 381 11 63 09 644 E-mail: office@mikroe.com
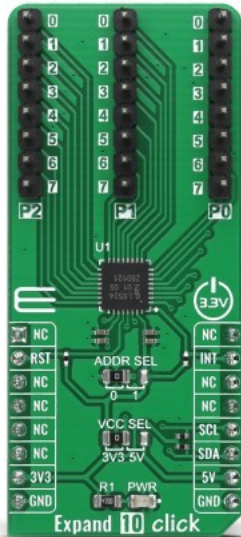www.mikroe.com

Expand 10 Click

PID: MIKROE-4801

Expand 10 Click is a compact add-on board that contains a multi-port I/O expander. This board features the PCAL6524, a 24-bit general-purpose I/O expander providing remote I/O expansion for most MCU's families via the Fast-mode Plus I2C-serial interface from NXP Semiconductors. The PCAL6524 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 allows seamless communications with next-generation low voltage microprocessors and microcontrollers on the interface and peripherals at a higher voltage on the port side. 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 10 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.

MIKROELEKTRONIKA D.O.O, Batajnički drum 23, 11000 Belgrade, Serbia
VAT: SR105917343 Registration No. 20490918
Phone: + 381 11 78 57 600 Fax: + 381 11 63 09 644 E-mail: office@mikroe.com
www.mikroe.com

Specifications

Type	Port expander
Applications	Can be used system monitoring applications, industrial controllers, portable equipment, and many more
On-board modules	PCAL6524 - 24-bit ultra-low-voltage translating general-purpose I/O expander from NXP Semiconductors
Key Features	Low power consumption, bidirectional voltage-level translation, Agile I/O features, Fast-mode Plus I2C-serial interface, reset and interrupt feature, and more
Interface	I2C
ClickID	No
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 10 click example on Libstock

Expand 10 click 2D and 3D files

PCAL6524 datasheet

Expand 10 click schematic