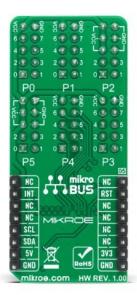


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EXPAND 7 Click





PID: MIKROE-4244

EXPAND 7 Click is a compact add-on board that contains a multi-port I/O expander with bidirectional input/outputs or PWM outputs. This board features the <u>CY8C9540A</u>, 40-bit I/O port expander with EEPROM and 8 independently configurable 8-bit PWM outputs from <u>Infineon</u>. The CY8C9540A operates as two I2C slave devices, first as a multi-port I/O expander, and second as a serial EEPROM with 11 Kbyte address space. It has a user default storage, flexible I2C address configuration, and a programmable interrupt and reset function. This Click board ™ can be used to monitor and control LEDs and system intrusion detection devices, but also as a storage for information such as error codes or board manufacturing data for diagnostic purposes.

EXPAND 7 Click is supported by a $\frac{\text{mikroSDK}}{\text{compliant library}}$, which includes functions that simplify software development. This $\frac{\text{Click board}^{\intercal}}{\text{comes}}$ comes as a fully tested product, ready to be used on a system equipped with the $\frac{\text{mikroBUS}^{\intercal}}{\text{mikroBUS}^{\intercal}}$ 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.





health and safety management system.



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Specifications

Туре	Port expander
Applications	Can be used to monitor and control LEDs and system intrusion detection devices, but also as a storage for information such as error codes or board manufacturing data for diagnostic purposes.
On-board modules	EXPAND 7 Click is based on the CY8C9540A, 40-bit I/O expander with EEPROM, and 8 independently configurable 8-bit PWM outputs from Cypress Semiconductor.
Key Features	20-bit, 100kHz I2C port expander, flexible I2C address configuration, internal 3Kbyte EEPROM, user default storage, 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 7 click 2D and 3D files

CY8C9540A datasheet

EXPAND 7 click example on Libstock

EXPAND 7 click schematic

