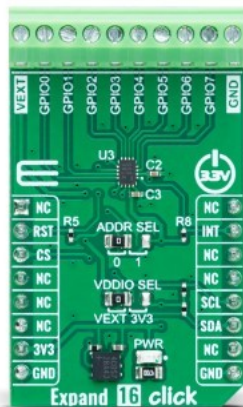


Expand 16 Click



PID: MIKROE-5939

Expand 16 Click is a compact add-on board with a multi-port I/O expander. This board features the [FXL6408](#), a fully configurable 8-bit GPIO expander from [ON Semiconductor](#). It brings eight independently configurable input/output ports, with a 6mA output drive, when configured in the output mode. When configured in Input Mode, the FXL6408 monitors the input ports for data transitions and signals the baseband by asserting the interrupt output pin. This Click board™ makes the perfect solution for the development of applications where additional I/Os are needed for switches, sensors, push-buttons, LEDs, fans, and more.

Expand 16 Click is fully compatible with the mikroBUS™ socket and can be used on any host system supporting the [mikroBUS™](#) standard. It comes with the [mikroSDK](#) open-source libraries, offering unparalleled flexibility for evaluation and customization. What sets this [Click board™](#) apart is the groundbreaking [ClickID](#) feature, enabling your host system to seamlessly and automatically detect and identify this add-on board.

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 for the development of applications where additional I/Os are needed for switches, sensors, push-buttons, LEDs, fans, and more
On-board modules	FXL6408 - fully configurable 8-bit GPIO expander from ON Semiconductor
Key Features	Eight independently configurable input/output ports, fully integrated I2C slave, low-power quiescent current, voltage translation capability, all inputs configurable with pull-up or pull-down resistors to pre-bias inputs, in output mode can drive up to 6mA of current, PoR, software and hardware reset, and more
Interface	I2C
ClickID	Yes
Compatibility	mikroBUS™
Click board size	M (42.9 x 25.4 mm)
Input Voltage	3.3V, External

Resources

[mikroBUS™](#)

[mikroSDK](#)

[Click board™ Catalog](#)

[Click Boards™](#)

Downloads

[FXL6408 datasheet](#)

[Expand 16 click 2D and 3D files](#)

[Expand 16 click schematic](#)

[Expand 16 click example on Libstock](#)

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