

PCR Click



PID: MIKROE-4636

PCR Click is a compact add-on board that allows you to use a pulsed coherent radar (PCR) in your application. This board features the [XM125](#), the Entry+ PCR module from Acconeer. The XM125 uses an Acconeer A121 pulsed coherent radar system based on a patented PCR technology with picosecond time resolution. The PCR Click provides access to the interfaces from the module so that it can easily be flashed and debugged. This Click board™ makes the perfect solution for developing high-precision people presence detection with the capability to recognize movement within configurable zones, motion detection, parking space occupancy detection, and level measurement in tanks or waste containers with configurable update frequency.

PCR 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	Proximity
Applications	Can be used for for developing high-precision people presence detection with the capability to recognize movement within configurable zones, motion detection, parking space occupancy detection, and level measurement in tanks or waste containers with configurable update frequency
On-board modules	XM125 - Entry+ PCR module from Acconeer
Key Features	Pulse coherent radar (PCR) with an integrated baseband, RF front-end and antenna in package (AiP), 32-bit ARM Cortex-M4 MCU, SWD/JTAG, integration of the device behind plastic or glass radomes without any need for a physical aperture, and more
Interface	I2C,UART,USB
ClickID	Yes
Compatibility	mikroBUS™
Click board size	L (57.15 x 25.4 mm)
Input Voltage	3.3V

Resources

[mikroBUS™](#)

[mikroSDK](#)

[Click board™ Catalog](#)

[Click Boards™](#)

[ClickID](#)

Downloads

[PCR click 2D and 3D files](#)

[XM125 datasheet](#)

[CP2102N datasheet](#)

[SPX3819 datasheet](#)

[PCR click example on Libstock](#)

[PCR click schematic](#)

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