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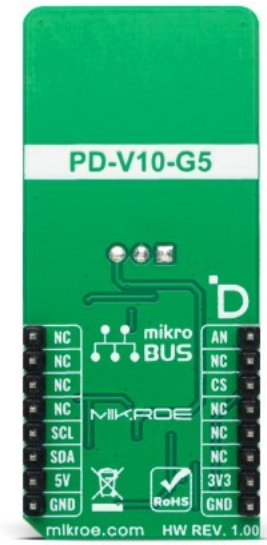
Microwave 5 Click



PID: MIKROE-5772

Microwave 5 Click is a compact add-on board that utilizes the Doppler Shift Phenomenon to sense motion. This board features the PD-V10-G5, a miniature X-band microwave transceiver from Ningbo Pdlux Electronic Technology. The transmitter on this transceiver works on a 10.525GHz frequency over the patch antenna, with a 2-4kHz pulse repetition frequency. The strength of the sensor's output, in other words, the detection range, depends on the Signal-to-Noise ratio. This Click board™ makes the perfect solution for the development of intrusion alarms, automatic door openers, presence-sensing applications, and more.

Microwave 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.

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Specifications

Type	Motion
Applications	Can be used for the development of intrusion alarms, automatic door openers, presence-sensing applications, and more
On-board modules	PD-V10-G5 - miniature X-band microwave transceiver from Ningbo Pdlux Electronic Technology
Key Features	Low power consumption, low cost, high sensitivity, patch antenna, additional 12-bit analog-to-digital converter, up to 22.3 ksps, uses Doppler shift phenomenon to “sense” motion, and more
Interface	Analog,I2C
ClickID	Yes
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

MCP6022 datashee

MCP3221 datasheet

Microwave 5 click 2D and 3D files

Microwave 5 click schematic

Microwave 5 click example on Libstock

PD-V10-G5 datasheet