IR Gesture 3 Click

PID: MIKROE-5742

IR Gesture 3 Click is a compact add-on board that provides contactless gesture recognition. This board features the ADPD1080, a photometric front-end from Analog Devices. The IR Gesture 3 Click allows gesture recognition in two dimensions, with a built-in optical filter and a sharp visible light cutoff. It eliminates the need for external lenses and preserves the dynamic range of the sensor when placed under sunlight or indoor lighting. It does not require a precise alignment because its sensor maintains a linear response within the ±35° angular field of view. This Click board™ makes the perfect solution for the development of various gesture sensing applications, from hand swipe gestures (left, right, up, down, wave), air click, and flicks to multizone proximity detection.

IR Gesture 3 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.
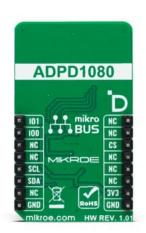
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Specifications

Type	Motion
Applications	Can be used for the development of various gesture-sensing applications, from hand swipe gestures (left, right, up, down, wave), air click, and flicks to multizone proximity detection
On-board modules	ADPD1080, - a photometric front end from Analog Devices ADPD2140 - an infrared light angle sensor from Analog Devices SFH4249 - a high-power infrared emitter from ams OSRAM
Key Features	Flexible gesture-sensing solution, low power consumption, supports swiping, waving, and proximity, detects a gesture under direct sunlight, and even when exposed to bright ambient light, and more
Interface	I2C
ClickID	Yes
Compatibility	mikroBUS
Click board size	M (42.9 x 25.4 mm)
Input Voltage	3.3V

Resources

mikroBUS™

mikroSDK

Click board™ Catalog

Click boards™

Downloads

IR Gesture 3 click example on Libstock

ADPD1080 datasheet

ADPD2140 datasheet

SFH 4249 datasheet

BH18PB1WHFV datasheet

IR Gesture 3 click 2D and 3D files

IR Gesture 3 click schematic

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).