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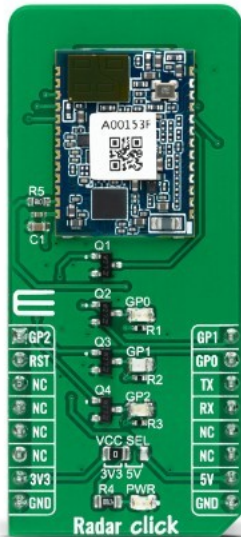www.mikroe.com

Radar Click

PID: MIKROE-5183

Radar Click is a compact add-on board that alerts you to the presence of an intruder via interpreting the infrared radiation that emanates from their body. This board features the MM5D91-00, a presence detection sensor module that integrates 60GHz mmWave technology that counts the number of people entering or exiting an entrance from Jorjin Technologies Inc. It includes the ARM Cortex-M4F based processor system, 1Tx, 3Rx antenna, and integrated regulator, alongside azimuth and elevation field of view of ±45° and ±40°. Its detection goes up to 10m for macro and 5m for micro motion with environmental-factors immunity such as temperature, wind, sunlight, and dust. This Click board™ is suitable for various presence sensing applications, from office and home to commercial buildings and more.

Radar 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	Proximity
Applications	Can be used for various presence sensing applications, from office and home to commercial buildings and more
On-board modules	MM5D91-00 - presence detection sensor module from Jorjin Technologies Inc
Key Features	Integrated mmWave technology, low power consumption, high resolution, adjustable detection range, immune to environmental factors, up to 10m/5m for macro/micro motion, and more
Interface	UART
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

Radar click example on Libstock

MM5D91-00 datasheet

Radar click 2D and 3D files

Radar click schematic