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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 $\pm 45^{\circ}$ and $\pm 40^{\circ}$. 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 boardTM is suitable for various presence sensing applications, from office and home to commercial buildings and more.

Radar Click is supported by a <u>mikroSDK</u> compliant library, which includes functions that simplify software development. This <u>Click board</u>TM comes as a fully tested product, ready to be used on a system equipped with the <u>mikroBUS</u>TM socket.

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).



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Specifications

| Туре | 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

<u>mikroBUS</u>™

<u>mikroSDK</u>

Click board[™] Catalog

Click Boards[™]

Downloads

Radar click example on Libstock

MM5D91-00 datasheet

Radar click 2D and 3D files

Radar click schematic

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