

## Radiation Click



PID: MIKROE-4036

**Radiation Click** is a Click board™ based on [BG51](#) radiation sensor from [Teviso Sensor Technologies](#). The function of the BG51 radiation sensor is based on an array of customized PIN diodes. Performance of the Radiation Click board™ with solid state sensor, in combination with high immunity to electrostatic fields make it a good choice for new state-of-the-art designs as well as for upgrading existing designs of detecting beta and gamma radiation and X-rays.

Radiation Click board™ 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.

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	Environmental
Applications	Equipment for detecting radioactivity in medical environment, Radiation monitors for nuclear safeguards and security, Gamma detector to detect illicit nuclear material, Natural sciences courses and practical lab experiments
On-board modules	BG51 radiation sensor is based on an array of customized PIN diodes
Key Features	Detects beta and gamma radiation and X-rays, Detector sensitivity: 5 cpm/ $\mu$ Sv/h, High immunity to RF and electrostatic fields, Linear response over wide temperature range (-30°C to 60°C)
Interface	GPIO
ClickID	No
Compatibility	mikroBUS
Click board size	L (57.15 x 25.4 mm)
Input Voltage	5V

## Resources

[mikroBUS™](#)

[mikroSDK](#)

[Click board™ Catalog](#)

[Click Boards™](#)

## Downloads

[Radiation click example on Libstock](#)

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

[BG51 datasheet](#)

[Radiation click schematic](#)

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