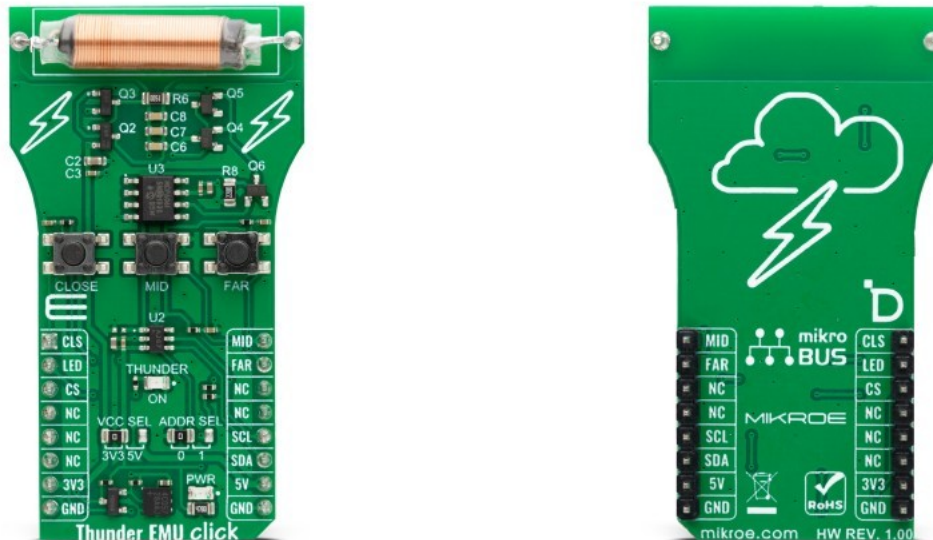


Thunder EMU Click



PID: MIKROE-5904

Thunder EMU Click is a compact add-on board that can be used to emulate lightning. This board features circuits that generate an RF signal that mimics lightning strikes. It is a thunder emulator board that allows you to mimic lightning signals that can represent different distances, thus enabling you to debug your lightning detector application for all kinds of scenarios. The RF signal has an effective range of about 5 - 15cm from the emulator antenna of this Click board™ to the sensor antenna. This Click board™ makes the perfect solution for debugging the lightning detectors.

Thunder EMU Click is fully compatible with the mikroBUS™ socket and can be used on any host system supporting the mikroBUS™ standard. It comes with the mikroSDK open-source libraries, offering unparalleled flexibility for evaluation and customization. What sets this Click board™ apart is the groundbreaking ClickID feature, enabling your host system to seamlessly and automatically detect and identify this add-on board.

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	Miscellaneous
Applications	Can be used for debugging the lightning detectors
On-board modules	Circuits that generate an RF signal that mimics lightning strikes
Key Features	Mimic the lightning for testing lightning detectors, three different ranges can be selected (close, mid-range, far), LED for visual presentation, and more
Interface	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™](#)

[ClickID](#)

Downloads

[MCP606 datasheet](#)

[Thunder EMU click example on Libstock](#)

[MCP4725 datasheet](#)

[Thunder EMU click 2D and 3D files](#)

[Thunder EMU 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).