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SE051 Plug&Trust Click

PID: MIKROE-5392

SE051 Plug&Trust Click is a compact add-on board representing a ready-to-use IoT security solution. This board features the SE051C2, an updatable extension of the EdgeLock™ SE050 from NXP Semiconductor, which delivers proven security certified to CC EAL 6+, with AVA_VAN.5up to the OS level. Designed for the latest IoT security requirements, it allows securely storing and provisioning credentials performing cryptographic operations, giving edge-to-cloud security capability right out of the box. It also provides upgrade functionality of the IoT applet while preserving on-device credentials, alongside reconfiguration possibility. This Click board™ is versatile in IoT security use cases such as secure connection to public/private clouds, device-to-device authentication or protection of sensor data, attestation and proof of device origin, and many more.

SE051 Plug&Trust 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.

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

Type	Encryption,IoT security
Applications	Can be used in IoT security use cases such as secure connection to public/private clouds, device-to-device authentication or protection of sensor data, attestation and proof of device origin, and more
On-board modules	SE051C2 - ready-to-use IoT secure element solution from NXP Semiconductor
Key Features	Updatable extension of the EdgeLock™ SE050, Common Criteria EAL6+ certification, pre-installed IoT applet, SEMS Lite future-proof security, maximum flexibility, optional I2C Master to support new IoT security use cases, ISO14443 interface, Deep Power-Down Mode, and more
Interface	I2C
ClickID	No
Compatibility	mikroBUS
Click board size	L (57.15 x 25.4 mm)
Input Voltage	3.3V

Resources

[mikroBUS™](#)

[mikroSDK](#)

[Click board™ Catalog](#)

[Click boards™](#)

Downloads

[SE051 Plug&Trust click example on Libstock](#)

[SE051 datasheet](#)

[SE051 Plug&Trust click 2D and 3D files](#)

[SE051 Plug&Trust click schematic](#)