# A5000 Plug&Trust Click

PID: MIKROE-5391

**A5000 Plug&Trust Click** is a compact add-on board representing a ready-to-use secure IoT authenticator. This board features the A5000, an Edge Lock® Secure Authenticator from NXP Semiconductors. The A5000 provides a root of trust at the IC level, giving an IoT authentication system state-of-the-art security capability. It allows for securely storing and provisioning credentials and performing cryptographic operations for security-critical communication and authentication functions. It has an independent Common Criteria EAL 6+ security certification up to OS level and supports ECC asymmetric cryptographic and AES/3DES symmetric algorithms. This Click board™ is suitable in IoT security use cases such as secure connection to public/private clouds, device-to-device authentication, or counterfeit protection.

A5000 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.

# 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 counterfeit protection |
| On-board modules | A5000 - secure IoT authenticator from NXP Semiconductors |
| Key Features | Based on Integral Security Architecture 3.0™, secure and efficient protection for authentication and anti-counterfeit use cases, Common Criteria EAL6+ certification, ECC asymmetric cryptographic and AES/3DES symmetric algorithms support, Deep Power-Down Mode, and more |
| Interface | I2C |
| Compatibility | mikroBUS |
| Click board size | S (28.6 x 25.4 mm) |
| Input Voltage | 3.3V |

## Resources

mikroBUS™

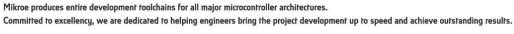mikroSDK

Click board™ Catalog

Click boards™

## Downloads

A5000 Plug&Trust click example on Libstock

A5000 Plug&Trust click 2D and 3D files

A5000 datasheet

A5000 Plug&Trust 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).