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Secure 4 Click

PID: MIKROE-2829

Secure 4 click includes the ATECC608A, a secure CryptoAuthentication™ device from Microchip, which is equipped with an EEPROM array which can be used for storing of up to 16 keys, certificates, consumption logging, security configurations and other types of secure data. Access to the various sections of memory can be restricted in several different ways and then the configuration can be locked permanently, to prevent changes.

The ATECC608A equipped on this click board™, supports the I2C interface with a flexible command set, that allows use in various security applications, including Network/IoT Node Endpoint Security, Secure Boot, Small Message Encryption, Key Generation for Software Download, Ecosystem control, Anti Counterfeiting and similar.

NOTE: The click board™ comes with stacking headers which allow you to combine it with other click boards™ more easily by using just one 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	Encryption
Applications	Used for storage of up to 16 keys, certificates, miscellaneous read/write, read-only or secret data, consumption logging, and security configurations
On-board modules	Microchip ATECC608A IC which includes an EEPROM array
Key Features	Cryptographic Co-processor with secure hardware-based key storage for up to 16 keys, certificates or data. Hardware support for the asymmetric sign, verify, key agreement, unique 72-bit serial number, fast communication protocol (I2C/GPIO).
Interface	I2C
Compatibility	mikroBUS
Click board size	M (42.9 x 25.4 mm)
Input Voltage	3.3V or 5V

Resources

mikroBUS™ standard specifications

Click board™ Catalog

Click Boards™

Downloads

Secure 4 click example on Libstock

Secure 4 click schematic

ATECC608A datasheet

Secure 4 click 2D and 3D files