


Crypto Authentication 8-Pin SOIC N T/R

| | |
|----------------------|--|
| Manufacturer: | Microchip Technology, Inc |
| Package/Case: | SOP8 |
| Product Type: | Embedded Processors & Controllers |
| RoHS: | RoHS Compliant/Lead free  |
| Lifecycle: | Active |



Images are for reference only

[Inquiry](#)

General Description

Key Features

Cryptographic co-processor with secure hardware-based key storage

Protected storage for up to 16 Keys, certificates or data

ECDH: FIPS SP800-56A Elliptic Curve Diffie-Hellman (ECDH)

NIST standard P256 elliptic curve support (ECC)

Hardware support for symmetric algorithms

SHA-256 & HMAC hash including off-chip context save/restore

AES-128: encrypt/decrypt, galois field multiply for GCM

Networking key management support

Turnkey PRF/HKDF calculation for TLS 1.2 & 1.3

Ephemeral key generation and key agreement in SRAM – Small message encryption with keys entirely protected

Secure boot support

Full ECDSA code signature validation, optional stored digest/signature – optional communication key disablement prior to secure boot

Encryption/Authentication for messages to prevent on-board attacks

Internal high-quality FIPS 800-90 A/B/C Random Number Generator (RNG)

Two high-endurance monotonic counters

Guaranteed unique 72-bit serial number

Two interface options available

High-speed single pin interface with One GPIO pin

8-pad UDFN, 8-lead SOIC, and 3-lead CONTACT packages

Operating temperature up to 100C

1.8V to 5.5V IO levels, 2.0V to 5.5V supply voltage

1MHz Standard I2C interface

Recommended For You

ATECC508A-MAHDA-S

Microchip Technology, Inc

UDFN8

ATSHA204A-SSHDA-B

Microchip Technology, Inc

SOP8

ATECC608B-SSHDA-B

Microchip Technology, Inc

SOP8

ATECC508A-SSHDA-B

Microchip Technology, Inc

SOP8

ATECC608A-MAHDA-S

Microchip Technology, Inc

UDFN8

ATECC608A-SSHDA-B

Microchip Technology, Inc

SOP8

ATECC608A-SSHDA-T

Microchip Technology, Inc
SOP-8

ATECC608A-MAHDA-T

Microchip Technology, Inc
UDFN8

ATSHA204-SH-DA-T

Microchip Technology, Inc
SOP-8

ATECC608B-MAHDA-S

Microchip Technology, Inc
UDFN8

ATECC508A-SSHDA-T

Microchip Technology, Inc
SOP8

ATSHA204A-MAHCZ-T

Microchip Technology, Inc
UDFN-8

ATECC608A-SSHCZ-T

Microchip Technology, Inc
SOIC-8

ATSHA204A-SSHCZ-T

Microchip Technology, Inc
SOIC-8

ATECC108A-MAHDA-T

Microchip Technology, Inc
UDFN-8