## IAT10.5Kb

## CryptoAuthentication™ Memory Token

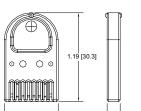


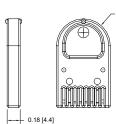
The power of memory, Secured.

The IAT10.5Kb CryptoAuthentication™ memory token utilizes Microchip's ATECC608A IC, part of their CryptoAuthentication family of high-security hardware authentication ICs. The IAT10.5Kb memory token takes the ATECC608A's security features and puts them into a physically robust portable memory device, enabling embedded applications, like:

- Secure storage/transfer of keys, certificates, passwords
- Secure credential with unique, read-only serial number
- Crypto Ignition Key (CIK)
- · Device authentication (anti-counterfeit) with countdown limit use
- Secure Boot and Secure Download Firmware Update The token's internal IC contains a 1208-byte (9664-bit) Data Zone of EEPROM memory that is divided into 16 slots. 8 slots are 36 bytes (288 bits), 7 slots are 72 bytes (576 bits) and one slot is 416 bytes (3328 bits). Each slot can be configured for read-only or read/write access in either clear or encrypted modes. There is also a 64-byte (512-bit) One Time Programmable (OTP) Zone. Data may be written until the zone is locked. Two monotonic counters can be used for limit-use applications. The IC also includes a unique 9-byte (72-bit) non-changeable serial number. The ATECC608A also features a random number generator, hardware support for asymmetric Elliptic Curve Cryptography (ECDH and ECDSACC) and hardware support for symmetric algorithms SHA-256 and AES-128. The IC also incorporates security features to detect tampering and thwart attacks.

The memory token uses solid over-molded construction using a rugged composite that protects the internal IC from harsh environments. The token features redundant contacts so it can be inserted into the receptacle with either side up.





R0.36 [R9.2]

Drawing dimensions are in inches and millimeters [mm]

Dimensions are nominal and subject to manufacturer's

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WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov

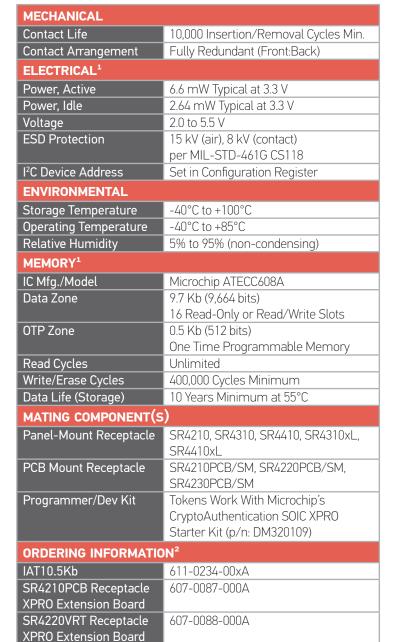
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221-0214-000 Rev. B 6/20

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1: Refer to ATECC608A CryptoAuthentication IC datasheet available at www.microchip.com. See also I<sup>2</sup>C EEPROM Interface Specification available at www. datakey.cor 2: "x" indicates optional color number. "A" suffix on part number indicates RoHS compliance.

NOTES: Conforms with Directive 2011/65/EU of the European Parliament and of the Council of 8 June 2011, and as amended by Directive 2015/863/EU, on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

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