



# CryptoMate EVO

## ACOS5-EVO Cryptographic USB Token

The **CryptoMate EVO** showcases the ACOS5-EVO cryptographic smart card module, featuring advanced ECC and RSA algorithms in alignment with standards like FIPS 140-2 Level 3 and CC EAL 5+. Resembling the CryptoMate Nano, it stands out with a Green LED indicator upon PC connection, identifiable through PCSC and Driver Name: ACS CryptoMate EVO. Offering expanded memory and cryptographic capabilities, the CryptoMate EVO is a versatile solution for secure applications.

As the latest addition to the CryptoMate Series, the CryptoMate EVO houses the ACOS5-EVO module supporting ECC and RSA functionalities. Compact and lightweight, akin to its predecessor, its ease of portability is unmatched. Upon insertion into a USB slot, the CryptoMate EVO assists users with a distinctive green LED. ACS provides essential middleware for utilizing the CryptoMate EVO in various PKI applications, such as digital signatures, online logins, and document encryption.



### KEY FEATURES

- ✔ **Smart Card Features**
  - Module: ACOS-EVO
  - Memory: 192KB
- ✔ **Middleware Support**
  - PKCS#11
  - MS CAPI/CNG
  - MS Smart Card Minidriver
- ✔ **Cryptographic Capabilities**
  - ECC: P-224/P-256/P-384/P-521
  - RSA: up to 4096 bits
  - DES/3DES: 56/112/168-bits (ECB, CBC)
  - AES: 128/192/256 bits (ECB, CBC)
  - Hash: SHA1, SHA224, SHA256, SHA384, SHA512
  - MAC: CMAC (3DES, AES), CBC-MAC (DES/3DES, AES)
  - Secure Messaging
  - Mutual Authentication
  - Random Number Generator
- ✔ **Compatible**
  - Supports All Major Operating Systems
    - Windows®, Linux®, macOS and Android™

### COMMON APPLICATIONS

- e-Government
- e-Healthcare
- Banking and Payment
- Network Security
- Access Control
- Public Key Infrastructure
- Digital Signature

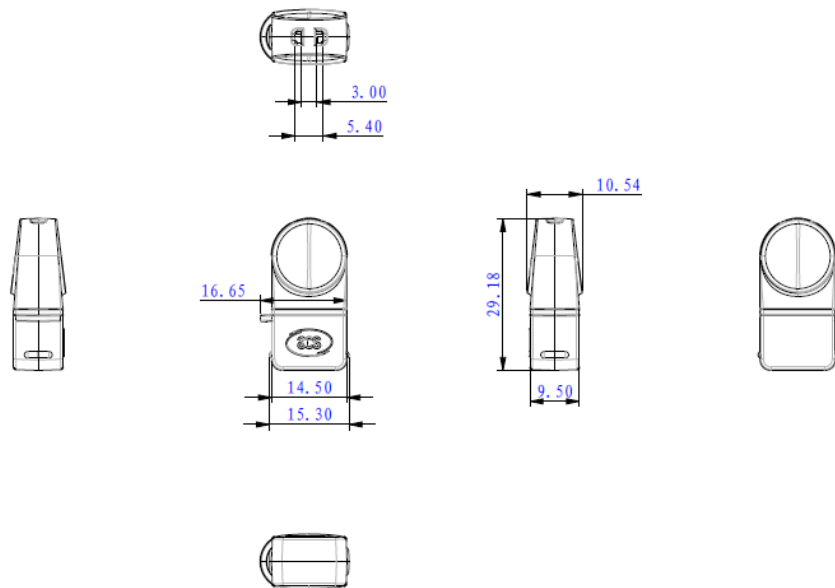


## TECHNICAL SPECIFICATIONS

ACOS5-EVO Cryptographic Smart Card Module	
Memory Size	192KB
Endurance	500,000 write/erase cycles
Data Retention	30 years
Cryptographic Capability	- ECC: P-224/P-256/P-384/P-521 - RSA: up to 4096 bits - AES: 128/192/256 bits (ECB, CBC) - DES/3DES: 56/112/168-bits (ECB, CBC) - MAC: CMAC (3DES, AES), CBC-MAC (DES/3DES, AES)
Hashing Capability	SHA1, SHA224, SHA256, SHA384, SHA512
Host Interface	
Protocol	USB CCID
Connector Type	Standard Type-A
Speed	USB 2.0 Full Speed (12Mbps)
Certifications	
Certifications	Common Criteria EAL5+ (Chip Level), CE, FCC, RoHS, REACH, Microsoft® WHQL
Compliances	USB CCID, PC/SC

Physical Characteristics	
Dimensions	29.18 mm (L) × 14.50 mm (W) × 10.54 mm (H)
Weight	4.6 g (± 1.0 g)
Available Colour(s)	Black
Peripherals	
LED	Green
Casing	Tamper-evident
Others	Keychain hole for portability
Operating Conditions	
Temperature	0 - 50°C
Humidity	Max. 90% (non-condensing)
MTBF	500,000 Hours
Power Supply	USB Port
OS & Browsers Support	
Supported OS	Windows®, Linux®, macOS Android™
Middleware Support	
Supported Middleware	PKCS #11, MS CAPI/CNG, MS Smart Card Minidriver

## MECHANICAL SPECIFICATIONS



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### About ACS

Advanced Card Systems Ltd. (ACS), founded in 1995, is Asia Pacific's top supplier and one of the world's top 3 suppliers of PC-linked smart card readers. ACS is the winner of the Product Quality Leadership Award for Smart Card Readers from Frost & Sullivan. ACS was listed in Forbes Asia's "Best Under a Billion" list for several years, an inter-industry list comprised of 200 top-performing publicly listed companies in the Asia-Pacific, with sales between US\$5 million and US\$1 billion. ACS develops a wide range of high-quality smart card reading/writing devices, smart cards and related products and distributes them to over 100 countries worldwide.

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