









CryptoMate Nano Cryptographic USB Token









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Product Overview



ACOS5T2-B (64 KB EEPROM)

Cryptographic Token



The CryptoMate Nano is the latest addition to the CryptoMate Token Series.

It contains the FIPS 140-2 Level 3—certified ACOS5-64 v3.00 module, making it one of the most secured and portable cryptographic USB tokens in the market.

Product Overview



What is CryptoMate Nano?



Smart Card Reader



ACOS5-64 Cryptographic Smart Card



CryptoMate Nano USB Token

Product Overview



Physical Characteristics

Dimension:

29.25 mm (L) \times 14.80 mm (W) \times 10.28 mm (H)



CryptoMate Nano
USB Token

Key Features of CryptoMate Nano



Certifications and Compliance

- ISO 7816 Parts 1, 2, 3, 4, 8, and 9
- Common Criteria EAL5+ (Chip Level)
- X.509 V3 Certificate Storage, SSL v3
- FIPS 140-2 (US Federal Information Processing Standards) Level 3–Certified Module

Speed and Memory

- 64 KB EEPROM for Application Data
- High Speed Transmission (9,600 bps – 223,200 bps)
- Configurable ATR (Answer To Reset)
- Anti-tearing Function

Cryptographic Capabilities

- DES/3DES
- AES 128/192/256
- RSA up to 4,096 bits
- On-board RSA processor for key generation, signature, and encryption
- Supports SHA-1 and SHA-256

Security Functions

- Provides multi-level secured access hierarchy
- Supports Secure Message and MAC
- Supports Mutual Authentication and Session Key Generation

Technical Specifications



	Category	CryptoMate Nano	
Product Code		ACOS5T2-B	
Communication Speed			
Contact (Smart Card)	9,600 bps - 223,200 bps	✓	
USB Full Speed		✓	
User EEPROM Memory			
User Memory		64 KB	
Endurance (write/erase cycle)		500,000	
ISO Standards			
Contact	ISO 7816 – 1/2/3	✓	
	ISO 7816 – 4	✓	
	ISO 7816 – 8/9	✓	

Technical Specifications



Category	CryptoMate Nano		
Cryptographic Capabilities			
3DES/3K3DES	✓		
AES-128/192/256 bits	✓		
RSA-512 to 4096 bits (in 256-bit step)	✓		
SHA -1/SHA-256	✓		
Secure Messaging	✓		
Mutual Authentication	✓		
Operating Conditions			
Temperature	0 °C – 50 °C		
Humidity	Max. 90% (non-condensing)		
MTBF	500,00 hrs		

Certifications/Compliance

























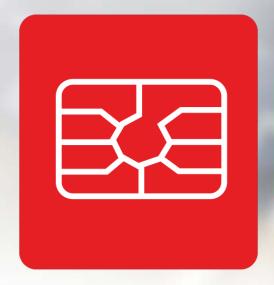












Product Applications

In what areas can we apply CryptoMate Nano?









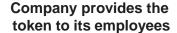






In what areas can we apply CryptoMate Nano?







Employee plugs CryptoMate Nano into the computer







Employees request for a digital







Employee uses his/her digital certificate to sign and encrypt the email

Employee stores the digital certificate in the token

Administrator checks the credentials and provides the employee with the link to download and store the certificate in the token









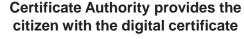


In what areas can we apply CryptoMate Nano?



Citizens go to Registration Authorities to apply for a Digital Certificate







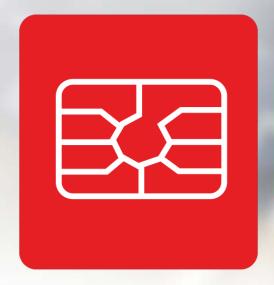


Citizen logs in to a secured website and submits the digitally signed and encrypted document to the government agency



Citizen digitally signs and encrypts his Income Tax Statement using the digital certificate stored in the token





Related Product

Client Kit



ACS provides the **ACOS5 Client Kit** to Certificate Authorities and other organizations who employ PKI solutions. It is a secure and easy-to-use software solution, ideal for managing, protecting, and using digital certificates.

ACOS5 and CryptoMate Nano securely stores all sensitive credentials and private keys. They ensure that sensitive pieces of information never leave the smart card and token, providing added security for your digital credentials.

The Client Kit contains two types of packages - Administrator Package and User Package. The Administrator Package is designed for Security Officers or Administrators in preparing the cards/tokens to be distributed for their endusers. The User Package can be distributed to end-users to manage their personal smart card/token with their digital credentials.

Client Kit



CryptoMate Nano supports the following operating systems:

- Windows®
 - Windows 7 and later
- MAC OS®
 - o 10.9, and 10.10, 10.11, 10.12
- Linux®
 - o Debian-based
 - Debian
 - Ubuntu
 - o openSUSE
 - o Fedora

Client Kit



CryptoMate Nano supports a number of security infrastructures and applications, including:

- Microsoft CryptoAPI, Microsoft® CNG and PKCS #11 Middleware
- Secure Online Certificate Generation
- Microsoft® Outlook, Windows® Mail, Microsoft® Outlook Express and Mozilla® Thunderbird® mail signing and encryption (S/MIME)
- Mozilla® Firefox®
- Internet Explorer®
- Windows® Smart Card Logon
- Microsoft® Office
- Open Office
- Adobe® Reader®

For more information, please visit the ACS website: www.acs.com.hk











Thank You!







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