

CryptoMate64 Cryptographic USB Token

A Product Presentation









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Rundown

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Product Overview



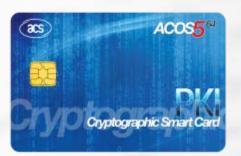
Product Overview

ACOS5-64 Series (64 KB EEPROM)

Cryptographic Smart Card and Token



Module



Full-sized Card



SIM-sized Card

USB Token

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Product Overview

What is CryptoMate64?



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ACOS5-64 Cryptographic Smart Card CryptoMate64 USB Token



Product Overview

Physical Characteristics

Dimension: 53.5mm (L) x 15.7mm (W) x 7.8mm (H)

Weight: 6 g

Keychain hole

LED indicator

6

CryptoMate64 USB Token



Product Features



What are the Key Features of CryptoMate64?

Speed and Memory

- 64 KB EEPROM for Application Data
- High Speed Transmission (9600 BPS 223,000 BPS)
- Configurable ATR
- Anti-tearing Function

Compliances and Certifications

- ISO 7816 Parts 1-4, 8-9 (T=0)
- NSH-1 (ICP Brazil) Certified
- Common Criteria EAL5+ (Chip Level)
- FIPS 140-2 (US Federal Information Processing Standards) compatible

Cryptographic Capability

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

Security Functions

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



Comparison Charts



Comparison Chart

Category		ACOS5-64	CryptoMate64		
Product Code		ACOS5-C	ACOS5T-B2		
Communication Speed					
Contact (Smart Card)	9,600 BPS - 223,200 BPS	✓	✓		
USB Full Speed			✓		
User EEPROM Memory					
User Memory		64 KB	64 KB		
ISO Standards					
	ISO 7816 – 1/2/3	✓	✓		
Contact	ISO 7816 – 4	✓	✓		
	ISO 7816 – 8/9	\checkmark	\checkmark		



Comparison Chart

Category		ACOS5-64	CryptoMate64		
Product Code		ACOS5-C	ACOS5T-B2		
Protocol					
Contact	T = 0	\checkmark	\checkmark		
File Systems					
Directory File		✓	✓		
Transparent (Binary File)		\checkmark	✓		
Linear Fixed Record		✓	✓		
Linear Variable Record		✓	✓		
Cyclic File		✓	✓		
EEPROM Endurance					
500,000 write/erase cycles		\checkmark	✓		



Comparison Chart

Category	ACOS5-64	CryptoMate64			
Product Code	ACOS5-C	ACOS5T-B2			
Cryptographic Capabilities					
DES/3DES	\checkmark	✓			
AES-128/192/256 bits	\checkmark	\checkmark			
RSA-512 to 4096 bits (in 256-bit step)	✓	✓			
SHA -1/SHA-2	\checkmark	✓			
Secure Messaging	✓	✓			
Mutual Authentication	\checkmark	\checkmark			
Applications					
E-government (e.g., National ID, Online Filing of Government Documents)	Digital Signature, Secured Network Access Control	Digital Signature, Secured Network Access Control			
Logical & Physical Access Control (e.g., Enterprise Security, Time & Attendance, etc.)	Corporate ID, Windows Logon	Corporate ID, Windows Logon			
Banking and Financial (e.g., Online banking, insurance, stock trading, etc.)	PKI Application, Network Security	PKI Application, Network Security			



Product Applications

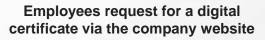


In what applications can we use CryptoMate64?



In what areas can we apply CryptoMate64?

Company provides the token to its employees



Employee plugs CryptoMate64 into the computer





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 CryptoMate64?

Citizens go to Registration Authorities to apply for a Digital Certificate



Certificate Authority provides the citizen with the 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

Income Statement





Related Products



CryptoMate-64 Client Kit



The CryptoMate64 Client Kit is a secure and easy-to-use package solution ideal for managing, protecting and using digital certificates.

All sensitive credentials and private keys are stored inside the CryptoMate64 and not in the threat-susceptible computer, thus ensuring that sensitive pieces of information never leave the smart card token providing added security for your digital credentials.

The client kit contains two types of packages - Admin Package and User Package.



Thank You!



For more information visit:

http://www.acs.com.hk/en/products/18/cryptomate64-usb-cryptographic-tokens/

