



### **ACOS5-64**

**Cryptographic Card** 

### **A Product Presentation**









### Rundown

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# Product Overview



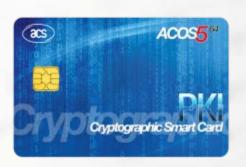
### **Product Overview**

### **ACOS5-64 Series (64 KB EEPROM)**

Cryptographic Smart Card and Token



Module



**Full-Sized Card** 



**SIM-Sized Card** 



**USB Token** 



# Product Features



### What are the Key Features of ACOS5-64P

#### **Speed and Memory**

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

#### **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

#### **Compliances and Certifications**

- ISO 7816 Parts 1-4, 8-9 (T=0)
- Common Criteria EAL5+ (Chip Level)
- FIPS 140-2 (US Federal Information

Processing Standards) compatible

#### **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	9,600 BPS - 223,200 BPS	✓	✓			
	USB Full Speed		✓			
User EEPROM Memory						
User Memory		64 KB	64 KB			
ISO Standards						
Contact	ISO 7816 – 1/2/3	✓	✓			
	ISO 7816 – 4	✓	✓			
	ISO 7816 – 8/9	✓	✓			



### Comparison Chart

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



### **Comparison Chart**

Category	ACOS5-64	CryptoMate64			
Product Code	ACOS5-C	ACOS5T-B2			
Cryptographic Capabilities					
DES/3DES	✓	✓			
3KDES	✓	✓			
AES-128/192/256 bits	✓	✓			
RSA-512 to 4096 bits (in 256-bit step)	✓	✓			
SHA - 1/SHA-2	✓	✓			
Secure Messaging	✓	✓			
Mutual Authentication	✓	✓			
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 ACOS5-64?







**Encryption** 



Digital Signature



Windows Log-on



**E-Government Services** 



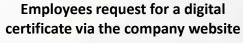
E-mail Security



### In what areas can we apply ACOS5-64?

Company provides the card to its employees











Insert ACOS5 in ACR38U PocketMate



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





Employee stores the digital certificate in the card



Insert ACOS5 in ACR38U PocketMate

Admin checks the credentials and provides the employee with the link to download and store the certificate in the card

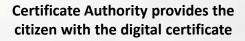




### In what areas can we apply ACOS5-64?

Citizens go to Registration Authorities to apply for a Digital Certificate







1

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



ACR38U PocketMate

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





Insert ACOS5 in ACR38U PocketMate



# Related Products



### **ACOS5-64 Client Kit**



The ACOS5-64 Client Kit is a secure and easy-to-use package solution ideal for managing, protecting and using digital certificates.

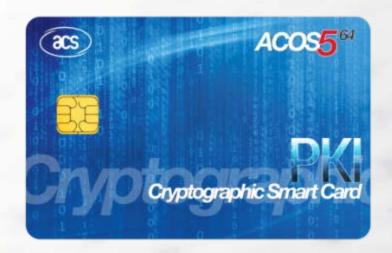
Sensitive credentials and private keys can be stored inside the ACOS5-64 Cryptographic Smart Card and not in the threat-susceptible computer, providing added security in storing your digital certificates.

The client kit contains software application, manuals and reference materials to help you manage the certificates stored in the card.

It also contains the middleware so that you can use it for various PKI applications such as signing documents and emails.



### Thank You!



For more information visit:

http://www.acs.com.hk/en/products/17/acos5-64-cryptographic-smart-card/

