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Product Information



Product Overview

ACOS5-64 v3.00 Series



Module



Full-sized Card



SIM-sized Card



CryptoMate Nano USB Token



Key Features of ACOS5-64 v3.00

Certifications and Compliance

- FIPS 140-2 Level 3–Certified
- Common Criteria EAL5+ (Chip Level)
- ISO 7816 Parts 1, 2, 3, 4, 8, and 9

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

- RSA up to 4,096 bits
- AES 128/192/256
- DES/3DES/3K3DES
- Supports SHA-1 and SHA-256
- On-board RSA processor for key generation, signature, and encryption

Security Functions

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

Technical Specifications

Category		ACOS5-64 OS v3.00	
Product Code		ACOS5-C1AACSA3003 (Full-sized Card) ACOS5-C2AACSA3003 (SIM-sized Card)	
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	ACOS5-64 OS v3.00		
Cryptographic Capabilities			
RSA	up to 4096 bits		
DES/3DES	56/112/168-bits (ECB, CBC)		
AES	128/192/256 bits (ECB, CBC)		
Hash	SHA1, SHA256		
MAC	CBC-MAC (DES/3DES)		
Secure Messaging	✓		
Mutual Authentication	✓		
Operating Conditions			
Temperature	0 °C – 50 °C		
Humidity	Max. 90% (non-condensing)		
MTBF	500,000 hrs		





Product Applications



In what areas can the ACOS5-64 be used?







Digital Signature







Encryption



Network Security



Email Security



In what areas can we apply ACOS5-64 V3.00?

Company provides their employees with an ID





Employees request for a digital certificate via the company website



Employee inserts the ACOS5 ID in the ACR38U PocketMate







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





Employees stores the digital certificate in the ID



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

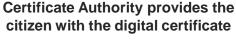




In what areas can we apply ACOS5-64 V3.00?

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 card









Related Software Products



Client Kit

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

With the ACOS5-64/CryptoMate Nano Client Kit, the following are supported:

- Secure Online Certificate Generation
- Microsoft® Outlook and Mozilla® Thunderbird® mail signing and encryption (S/MIME)
- Windows® Smart Card Logon
- Microsoft® Office
- Adobe® Reader®

The Client Kit currently supports the following OS:

- Windows®
- MAC OS®
- Linux®

Contact your ACS sales representative or email us at <u>info@acs.com.hk</u> for more information.



ACOS5 Minidriver

For clients who want to use the ACOS5-64 v3.00 and CryptoMate Nano in Windows Environment only, ACS also provides the ACOS5 Minidriver.

The following Windows applications are supported:

- Windows® Smart Card Logon
- Microsoft® Office
- Microsoft® Outlook mail signing and encryption (S/MIME)

Once the token has been initialized with the ACOS5 Minidriver, it can only be used with Windows OS and will not be compatible with other ACS middleware.

Contact your ACS sales representative or email us at <u>info@acs.com.hk</u> for more information.





