



Outline

- Product Information
 - Product Overview
 - Product Features
 - Technical Specifications
 - Certifications/Compliance
- 2. Product Applications



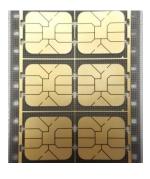


Product Information

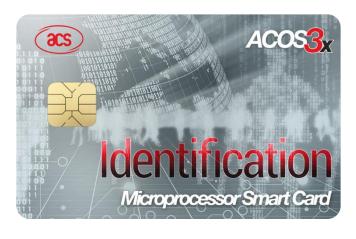


Product Overview

ACOS3X (256KB EEPROM)



Module



Full-sized Card



Key Features of ACOS3X

KEY FEATURES

- Based on ACOS3 platform with larger EEPROM memory size and faster processing time
- 256 KB EEPROM Size
- High Baud rate of up to 223.2 Kbps with modifiable ATR
- Account data structure for highly secure payment applications as an optional feature
- Maximum support of 128 user files
- Can be paired with ACOS6-SAM for key diversification and mutual authentication

SECURITY FEATURES

- DES/3DES
- AES
- 5 secret codes + issuer code
- Session key based on FIPS 140-2 compliant true random numbers
- PIN code that can be updated by card holder

COMPLIANCE TO STANDARDS

ISO 7816 Parts 1, 2, 3 supporting the T=0 direct protocol



Technical Specifications

		ACOS3X	
Product Code		ACOS3X-E	
User EEPROM Memory			
User Memory		256 KB	
Compliance to ISO Standards			
Contact	ISO 7816 – 1/2/3	✓	
Communication Speed and Protocol: Contact Interface			
Protocol		T=0	
Speed		223.2 kbps	
Operating Conditions			
Temperature		-25 °C to 85 °C	



Technical Specifications

	ACOS3X		
File System			
Transparent (Binary File)	✓		
Linear Fixed Record	✓		
Cryptographic Capabilities			
DES/3DES	56/112 bits		
AES	128/192 bits		
MAC	✓		
Secure Messaging	✓		
Mutual Authentication	✓		
Random Number Generator	✓		





Product Applications



In what areas can the ACOS3X be used?







Corporate Security



Loyalty System





Payment System / e-Purse



Physical Access Control



How to Use ACOS3X - Overview

Sample Scenario: Student Card Application

Student ID (ACOS3X Card)



Information stored

e.g.:

- 1. Student Name
- 2. Gender
- 3. Biometric Data (Fingerprint)
- 4. e-Purse amount
- 5. Library record

SAM cards are stored inside the device for mutual authentication

Authenticate the data received from the student card inserted, and prove to the cards the authenticity of the terminal.













- Classroom door access
- Records the attendance in the school database



Printing services payment

Borrow books

Transactions are

transferred to library

Computer Login

Computer Center



database

Library



