

Advanced Card Systems Ltd. Card & Reader Technologies



ACOS6

Multi-Application & Purse Card (MAP Card)

A Product Presentation









Rundown

- 1. Product Overview
- 2. Product Features
- 3. Comparison Charts
- 4. Product Applications
- 5. Q&A



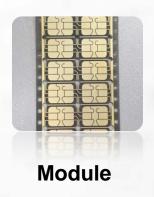
Product Overview



Product Overview

ACOS6 (64 KB EEPROM)

Multi-Application Multi Purse [MAP] Smart Card





Full-sized card



SIM-sized card



Product Features



What are the Key Features of ACOS6?

Multi-Application and Purse Card

- High speed and flexible smart card offering cost effective solutions
- Specifically designed to address the requirements of multiple applications and multiple e-purses

Security Features

- DES/Triple DES capabilities
- AES-128 support
- Hardware based random number generator compliant to FIPS 140-2
- Mutual authentication with session key generation
- Multi-level secured access hierarchy

Compliance to Standards

- ISO 7816 Parts 1, 2, 3, 4
- ISO 7816 Part 4 file structures Transparent, Linear fixed, Linear Variable, Cyclic

Storage and other Features

- 64 KB EEPROM Size
- High Baud rate of up to 223 Kbps
- Anti-tearing done on file headers and PIN commands



Comparison Charts



Comparison Chart

Category		ACOS6	ACOS6-SAM	
Product Code		ACOS6-C	ACOS6S-B	
Communication Speed				
Contact	9,600 BPS - 223,200 BPS	✓	✓	
User EEPROM Memory				
User Memory		64 KB	32 KB	
ISO Standards				
Contact	ISO 7816 – 1/2/3	✓	✓	
	ISO 7816 – 4	✓	✓	
Protocol				
Contact	T = 0	✓	✓	
File Systems				
Directory File		✓	✓	
Transparent (Binary File)		✓	√	
Linear Fixed Record		✓	√	
Linear Variable Record		✓	√	
Cyclic File		✓	✓	



Comparison Chart

Category	ACOS6	ACOS6-SAM		
Product Code	ACOS6-C	ACOS6S-B		
EEPROM Endurance				
100,000 write/erase cycles	✓	✓		
Cryptographic Capabilities				
DES/3DES	✓	✓		
3DES		✓		
AES-128		✓		
Secure Messaging	✓	✓		
Mutual Authentication	✓	✓		
Applications				
e-Government and e-Healthcare (e.g., Identification, Healthcare ID, etc.)	Identification, Healthcare ID,	Identification, Healthcare ID,		
Banking and Financial (e.g., Online banking, insurance, stock trading, etc.)	Network Security	Network Security		
Loyalty and Retail (e.g., Cashless retail payment, Customer loyalty, etc.)	e-Purse, Customer Loyalty, Online Top-Up	e-Purse, Customer Loyalty, Online Top-Up		

Product Applications



In what areas can we apply ACOS6?





Corporate Security/ Identification





e-Payment system



e-Health



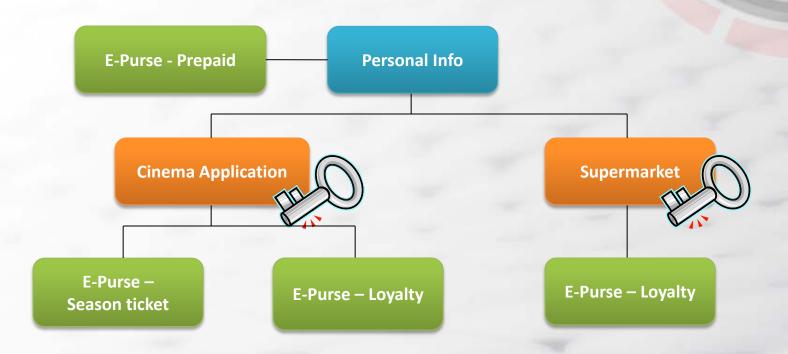
Network Security



e-Purse and Loyalty



ACOS6 Sample Application



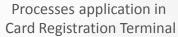


How to Use ACOS6 - Overview

Sample Scenario: e-Purse and Loyalty Application

Customer submits e-Purse and Loyalty Card application form







e-Purse and Loyalty Card (ACOS6) is issued



Information stored

e.g.:

- 1. Customer Name
- 2. Gender
- 3. e-Purse Value
- 4. Points Earned

At the Redemption Terminal it can check the accumulated points and converts to gift items or e-Purse Value













At the terminal, the amount of the transaction

is deducted from the prepaid (e-Purse value)

and card is updated with the accumulated points



Customer makes purchases and presents ACOS6 card to purchase and earn points









Related Products



ACOS6 Related Product

ACOS6 Software Development Kit (SDK)

Develop your own Multi-Application & Purse applications



For Developers

To develop multi-application and purse applications in:

- ACOS6 Smart Card
- ACOS3 Smart card
- ACOS6 SAM card *

*ACOS6-SAM supports various client cards which include ACOS6 and ACOS3

For further details about the SDK, please visit:

ACOS6 SDK: http://www.acs.com.hk/en/products/117/acos6-multi-application-purse-smart-card-software-development-kit/



Thank You!



For more information, visit:

http://www.acs.com.hk/en/products/103/acos6-multi-application-purse-card-map-card/

