ACOS6
Multi-Application
Multi Purse (MAP)
Smart Card

Advanced Card Systems Ltd.
Card & Reader Technologies

Outline

1. Product Information
   - Product Overview
   - Product Features
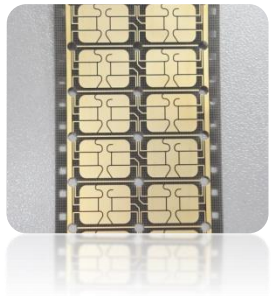   - Technical Specifications
2. Product Applications

Multi-app
Multi-application & Purse Card

Product Information

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ACOS6-C (64 KB EEPROM)

Module

Full-sized card

SIM-sized card

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 having multiple applications and multiple e-purses in a single smart card

Security Features

- DES/Triple DES 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 feature

Technical Specifications

	ACOS6
Product Code	ACOS6-C
User EEPROM Memory	
User Memory	64 KB
Compliance to ISO Standards	
ISO 7816 – 1/2/3	✓
ISO 7816 – 4	✓
Communication Speed and Protocol: Contact Interface	
Protocol	T=0
Speed	223.2 kbps
Operating Conditions	
Temperature	-25 °C to 85 °C

Technical Specifications

	ACOS6
File System	
Directory File	✓
Transparent (Binary File)	✓
Linear Fixed Record	✓
Linear Variable Record	✓
Cyclic File	✓
Cryptographic Capabilities	
DES/3DES	56/112 bits
Secure Messaging	✓
Mutual Authentication	✓
Random Number Generator	✓

Product Applications

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In what areas can the ACOS6 be used?

Corporate Security

e-Government

e-Payment

e-Health

Network Security

e-Purse & Loyalty

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Customer submits e-Purse and Loyalty Card application form

Processes application in Card Registration Terminal

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, customer can check the accumulated points and convert those points to gift items or e-Purse value

At the terminal, the amount of the transaction is deducted from the prepaid value (e-Purse value) and card is updated with the accumulated points

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

REDEEM

Related Software Products

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Software Development Kits

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, including 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!

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