



**Advanced Card Systems Ltd.**  
Card & Reader Technologies



# ACOS3X-E

ACOS3 eXpress MICROPROCESSOR CARD

**A Product Presentation**



# Rundown

1. Product Overview
2. Product Features
3. Product Applications
4. Q & A

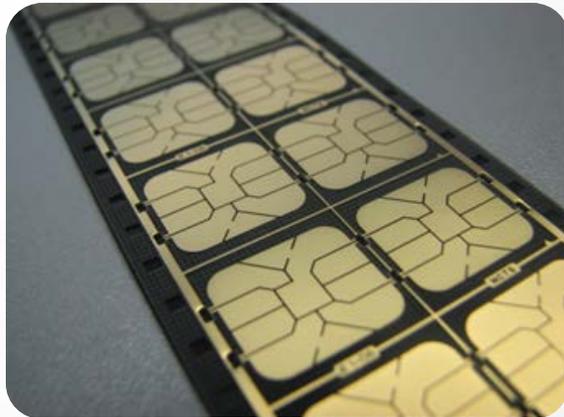




# Product Overview

## ACOS3X Series (256KB EEPROM)

Versatile ACS Card Operating Systems version3 eXpress Smart Card



**Module**



**Full-Sized Card**



**SIM-Sized Card**



# Product Features



# Key Features of ACOS3X

## ACOS3X

- ACOS3 eXpress (ACOS3X)



**Fully compatible to ACOS3**



**Hardware 3DES Crypto**



**Memory up to 256K**

# Key Features of ACOS3X

## Ultra-High User Memory

High user memory with 256KB EEPROM allows user to create up to 128 files.

## Binary (Transparent) File Support

Can store large data such as images & fingerprint templates without breaking data off into segments of record lengths before writing to the card

## High-speed card (up to 223,200 bps)

With DES and 3DS Hardware crypto-Engine, ACOS3X performs fast processing power on any commands for high security smart card applications



## Secure Messaging Support

Secure messaging encrypts all the data between the card and the terminal so that no one can intercept to read/modify the data as it passes through the computer

## SAM (Secure Access Module) card availability

ACOS6 SAM card can be used as a general cryptogram computation module or as the security authentication module for ACOS3X client cards.



# Product Applications



# ACOS3X Application



Network Security



Loyalty



Payment system /  
e-Purse



Corporate Security



Windows Logon  
(Custom)



Physical Access Control



# ACOS3X Application Example

## Sample Scenario: Student Card Application

### Student ID (ACOS3X Card)



#### Information stored

e.g.:

- 1.) Student Name
- 2.) Sex
- 3.) Class
- 4.) e-purse amount
- 5.) Library record

SAM cards stored inside device for mutual authentication

Authenticate the student cards inserted, as well as the data received from them, and prove to the cards the authenticity of the terminal



Smart Card Reader  
(e.g. ACR38)

### School Services



Computer Center

- Printing services payment
- Computer Login

Library



- Borrow books
- Record transferred to library database



# Ordering Information



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Products	Description
ACOS3X-E1AACSA1150	ACOS3 eXpress Micro-processor cards with 256KB EEPROM, glossy, PVC
ACOS3X-E2AACSA1150	ACOS3 eXpress Micro-processor cards with 256KB EEPROM, plunge SIM size, glossy, PVC
ACOS3X-E3AACSA1150	ACOS3 eXpress Micro-processor card modules with 256KB EEPROM
ACOS6S-B2AACSA4080	Micro-processor based secure access module cards with 32K EEPROM, plunge SIM size, glossy



# Thank You!!!

*More information on:*

*<http://www.acs.com.hk/index.php?pid=product&id=ACOS3X>*

