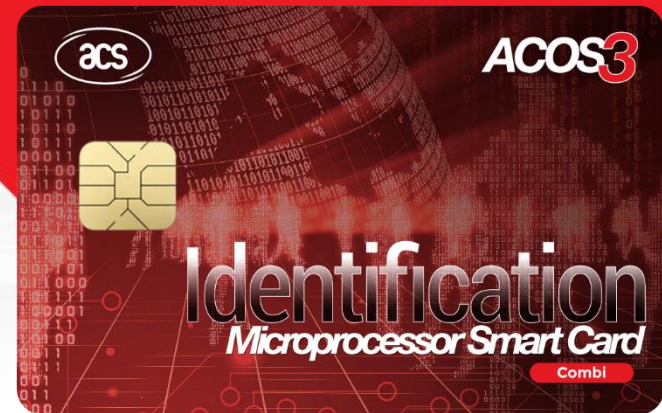




ACOS3

Microprocessor Smart Card

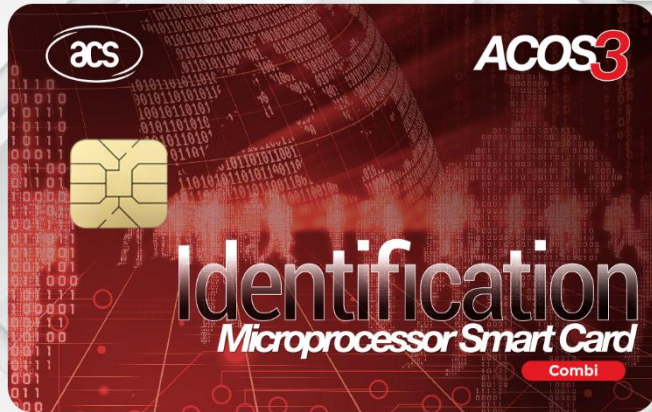


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Outline

1. Product Information
 - Product Overview
 - Product Features
 - Technical Specifications
2. Product Applications
3. Related Software Products





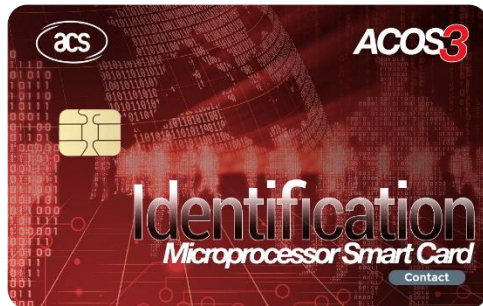
Product Information



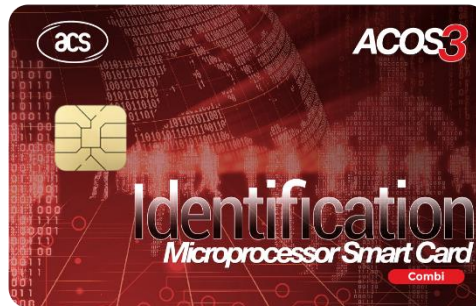
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Product Overview

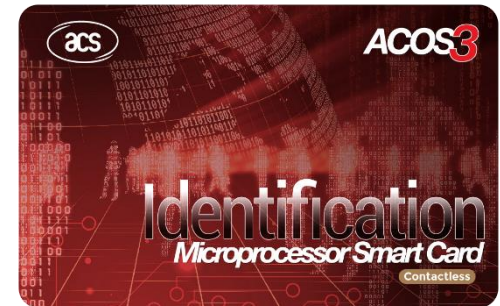
ACOS3 Series



PN: ACOS3
ACOS3 (Contact)



PN: ACOS3-G1K
ACOS3 (Combi)



PN: ACOS3-G1L
ACOS3 (Contactless)

The ACOS3 is also available in module and SIM-sized form factors. ACS also offers various customization options.



Key Features of ACOS3

Speed and Memory

- Contact: 32 KB/72 KB
Combi/Contactless: 8 KB
- Configurable ATR (Answer To Reset)
- Anti-tearing Function

Security Functions

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

Cryptographic Algorithms

- DES/3DES
- AES
- MAC
- Random Number Generator

Certifications and Compliance

- ISO 7816 Parts 1, 2, 3
- ISO 14443 Parts 1-4, Type A



Technical Specifications

		ACOS3 Contact	ACOS3 Combi	ACOS3 Contactless
Product Code		ACOS3-B / ACOS3-D	ACOS3-G1K	ACOS3-G1L
User EEPROM Memory				
User Memory		32 KB/ 72 KB	8 KB	8 KB
Endurance (write/erase cycle)		100,000	500,000	500,000
Compliance to ISO Standards				
Contact	ISO 7816 – 1/2/3	✓	✓	-----
Contactless	ISO 14443 - 1/2/3/4	-----	✓	✓
	Type A	-----	✓	✓



Technical Specifications

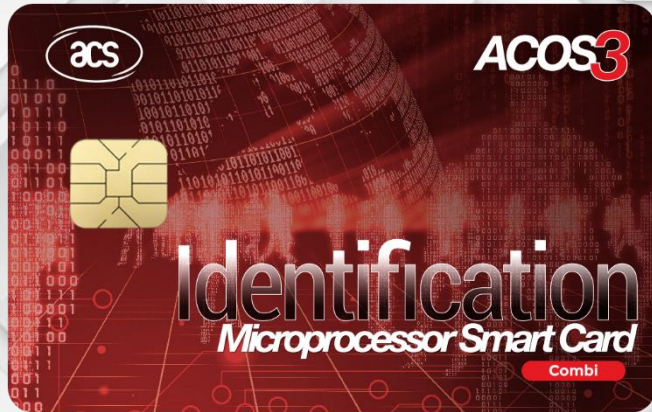
ACOS3 Contact		ACOS3 Combi	ACOS3 Contactless
Communication Speed and Protocol: Contact Interface			
Protocol	T=0	T=0	-----
Speed	223.2 kbps	223.2 kbps	-----
Communication Speed and Protocol: Contactless Interface			
Protocol	-----	T=CL	T=CL
Speed	-----	106 - 848 kbps	106 - 848 kbps
Operating Conditions			
Temperature	-25 °C to 85 °C	-25 °C to 85 °C	-25 °C to 85 °C



Technical Specifications

	ACOS3 Contact	ACOS3 Combi	ACOS3 Contactless
File System			
Transparent (Binary File)	✓	✓	✓
Linear Fixed Record	✓	✓	✓
Cryptographic Capabilities			
DES/3DES	56/112/168 bits	56/112 bits	56/112 bits
AES	128/192 bits	-----	-----
MAC	✓	-----	-----
Secure Messaging	✓	✓	✓
Mutual Authentication	✓	✓	✓
Random Number Generator	✓	✓	✓



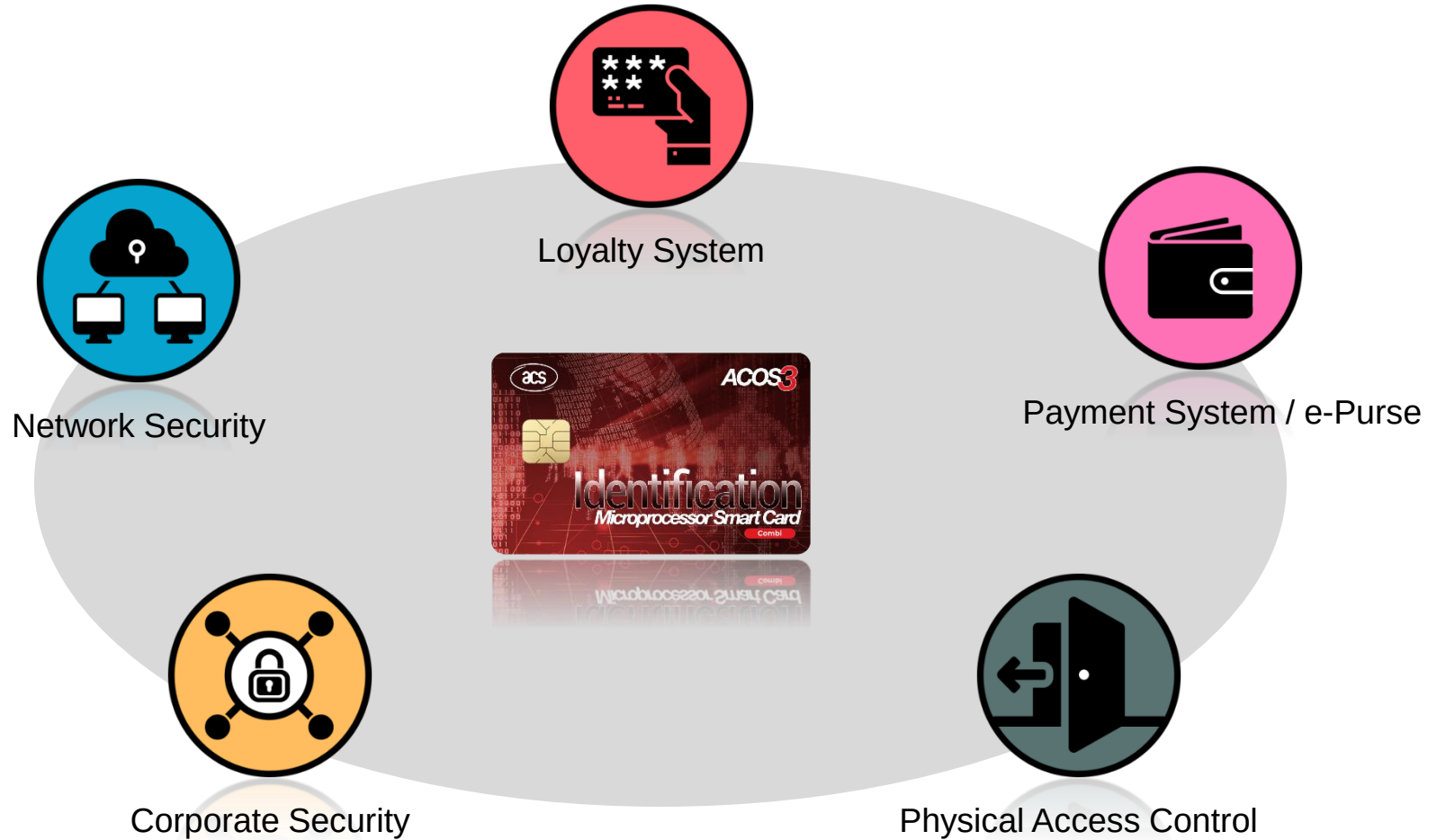


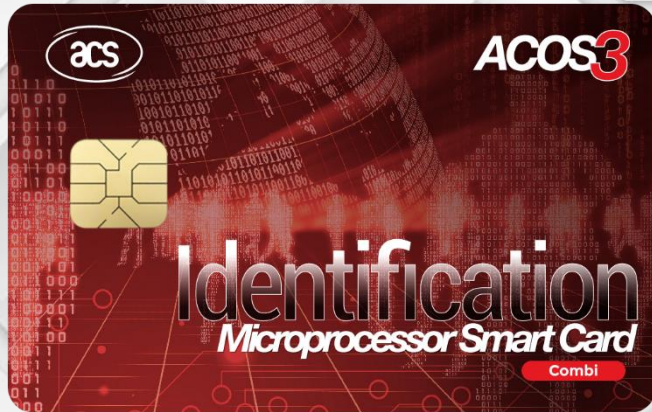
Product Applications



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In what areas can the ACOS3 be used?





Related Software Products



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Software Development Kits

ACS offers various software development kits that use different ACS Readers.

The ACOS3 card is featured in different SDKs/EVKs offered by ACS, including, but not limited to the following:

- ACR39 SDK
- ACR1252 SDK
- ACR1251 SDK
- ACR1281 SDK

Contact your ACS sales representative, visit our website at www.acs.com.hk or email us at info@acs.com.hk for more information.



[illegible]

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