Advanced Card Systems Ltd.
Card & Reader Technologies

SMART CARDS & SMART CARD OPERATING SYSTEMS

ACOS5 EVO

Cryptographic Smart Card with ECC & RSA Support

ACOS5-EVO, the latest addition to the ACOS5 Series, is a cryptographic smart card designed for Public Key-based applications. It is available in contact, combi or contactless interface.

The ACOS5-EVO offers additional cryptographic algorithms, which includes ECC on top of the existing RSA support. It supports DES/3DES and AES for symmetric algorithms and has improved hashing and MAC support. It also complies with other international standards for PKI smart cards such as FIPS 140-2 (US Federal Information Processing Standards) Level 3 and CC EAL 5+ (chip level).

ACS also offers the middleware needed to use the ACOS5-EVO in PKI applications such as digital signature, online login, and document and email encryption. For more information, contact your ACS representative or email us at info@acs.com.hk.

Smart Card Features

- ☑ **Contact Interface: T=0, T=1**
- ☑ **Contactless Interface: T=CL**
- ☑ **Extended APDU**
- ☑ **192 KB Memory**
- ☑ **Anti-Tearing**

Middleware Support

- ☑ **PKCS#11**
- ☑ **MS CAPI/CNG**
- ☑ **MS Smart Card Minidriver**

Cryptographic Capabilities

- ☑ **ECC: P-224/P-256/P-384/P-521 Customization**
- ☑ **RSA: up to 4096 bits**
- ☑ **DES/3DES: 56/112/168-bits (ECB, CBC)**
- ☑ **AES: 128/192/256 bits (ECB, CBC)**
- ☑ **Hash: SHA1, SHA224, SHA256, SHA384, SHA512**
- ☑ **MAC: CMAC (3DES, AES), CBC-MAC (DES/3DES, AES)**
- ☑ **Secure Messaging**
- ☑ **Mutual Authentication**
- ☑ **Random Number Generator**

Certifications / Compliance

- ☑ **ISO 7816 Parts 1-4, 8, 9**
- ☑ **ISO 14443 Parts 1-4, Type A**
- ☑ **Common Criteria EAL5+ Certified (Chip Level)**
- ☑ **FIPS 140-2 Level 3 Compliant**

Customization

- ☑ **PVC/PET/ABS**
- ☑ **Hi-co/Lo-co Magnetic Stripe**
- ☑ **Color Printing**
- ☑ **Signature Panel/Barcode**

Common Applications

Public Key Infrastructure (PKI)
Digital Signature
e-Government
Network Security
Access Control
Blockchain Applications

www.acs.com.hk

info@acs.com.hk