Advanced Card Systems Ltd.
Card & Reader Technologies

SMART CARDS & SMART CARD OPERATING SYSTEMS

ACOS J - G
Java Card

ACOSJ is a smart card operating system developed by Advanced Card Systems Ltd. Compliant with GlobalPlatform Card specifications and powered by Java Card Technology, it provides a secure platform for rapid application development of many value-adding applets, including e-banking, e-payment, loyalty, e-government, and public key infrastructure (PKI). ACOSJ has a fast read/write speed, is highly durable, and can house multiple secure applications. It comes in module and card options.

ACOSJ is equipped with powerful cryptographic capabilities. These enhance the security and performance of cryptographic operations and data management, both of which are essential to fulfilling the security requirements of smart card applications.

For more information, please contact us at info@acs.com.hk

Smart Card Features

- ☑ **Contact Interface: T=0, T=1**
- ☑ **Contactless Interface: T=CL**
- ☑ **Anti-Tearing**

Cryptographic Capabilities

- ☑ **ECC: 112/128/160/192/224/256/384 bits**
- ☑ **RSA: 768 to 2048 bits**
- ☑ **DES/3DES: 56/112/168-bits (ECB, CBC)**
- ☑ **AES: 128/192/256 bits (ECB, CBC)**
- ☑ **Hash: SHA1, SHA224, SHA256, SHA384, SHA512**
- ☑ **SM2/SM3/SM4**
- ☑ **SEED: 128 bits**

Certifications / Compliance

- ☑ **Java Card Classic v3.0.4**
- ☑ **Global Platform v2.2.1**
- ☑ **Mapping Guidelines v1.0.1**
- ☑ **ISO 7816 – 1/2/3/4**
- ☑ **ISO 14443 – Type A and B**
- ☑ **CC EAL5+ (chip level)**

Customization

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

Common Applications

e-Government
Banking & Payment
e-Healthcare
Access Control
Network Security
Secured Email
Public Key Infrastructure
Digital Signature
Transportation

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