



Advanced Card Systems Ltd.
Card & Reader Technologies



AET65

Smart Card Reader with Fingerprint Sensor

A Product Presentation



www.acs.com.hk



Rundown

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Product Overview





Product Overview

AET65 Smart Card Reader with Fingerprint Sensor

Belongs to the Smart Card / Fingerprint Readers Product line. Combining the smart card and fingerprint technology for superior security.

The AET65 is a contact smart card based reader with fingerprint sensor that can be easily integrated into a simple yet secure biometric system





Product Overview

AET65



ACR38-SAM PC-Linked
Smart Card Reader



Swipe Fingerprint
Sensor

Secure Authentication

Combines a silicon swipe fingerprint sensor and a contact smart card reader for highly secure authentication.



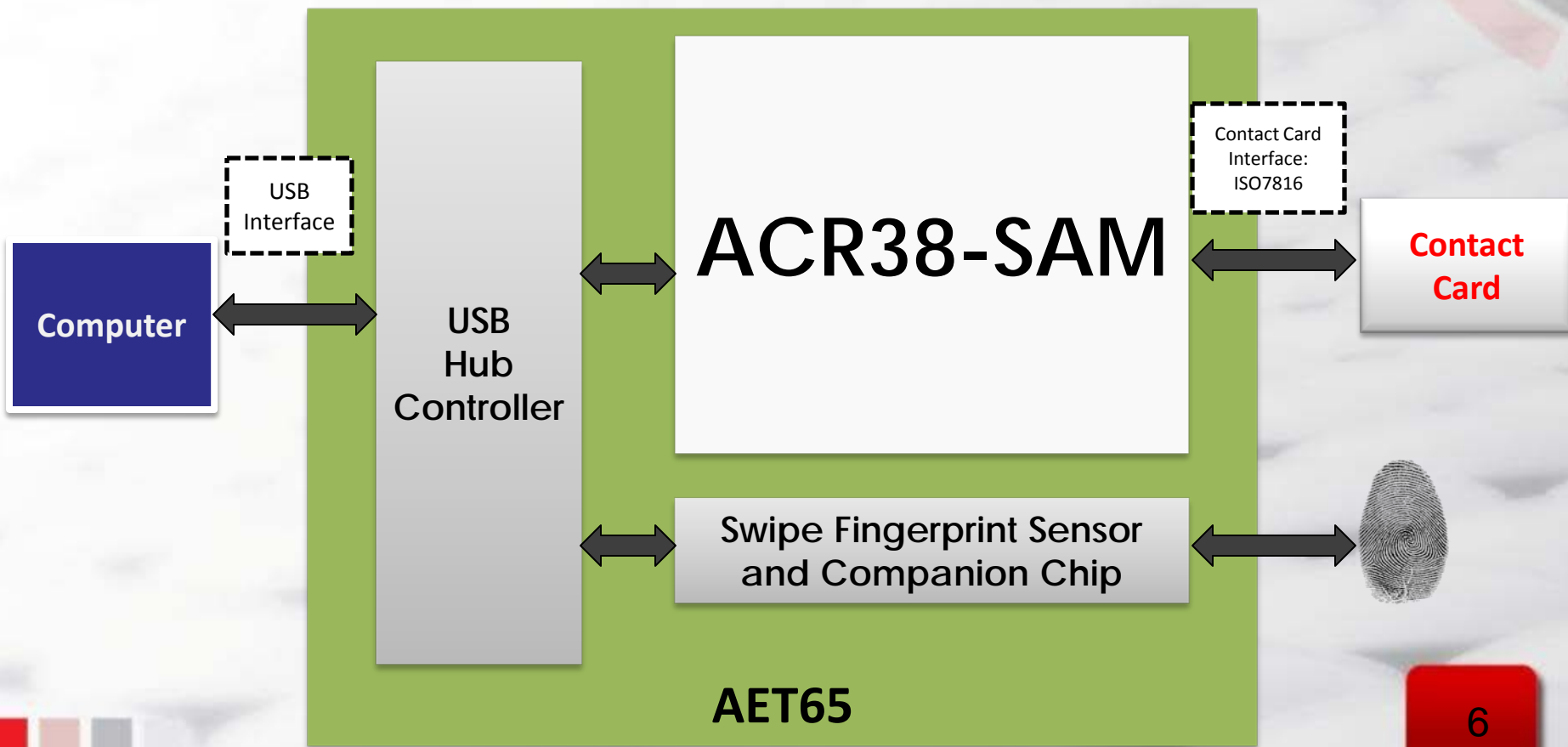
High-level Security

Match-on-device is the default algorithm of AET65 which performs template extraction & matching within the device itself – not in the PC that is vulnerable to security attacks.



Product Overview

AET65 Block Diagram





Product Features





What are the Key Features of AET65?



Fingerprint Sensor
Authentec Touchstrip TCS4 with
508 DPI Image Resolution

Enhanced Security
Match-on-device
Built-in SAM Card
Encrypted fingerprint template

Card Type Support
MCU card with T=0 and T=1
protocols
ISO 7816 Class A, B, C

Certifications/Compliance
ISO7816
PC/SC
BioAPI 1.1
Windows Biometric Framework
CE, FCC, RoHS & WHQL

OS Support
Windows 2000, XP, Vista, 7,
Server 2003, Server 2003 R2,
Server 2008, Server 2008 R2
Linux





Product Features

Ease of Application Development

Compliance with BioApi and Windows Biometric Framework

- Designers can integrate fingerprint authentication into smart card-based applications without an in-depth knowledge of biometrics
- Compliance with BioApi specification provides interoperability between different software applications and biometric technologies developed by different vendors.
- Compliance with Windows Biometric Framework enables designers to manage different biometric devices in Windows and provides software developers with a common platform and interface
- Applications can be programmed to accept either 1 or both of the 2 inputs of AET62: smart card and/or fingerprint

Product Features

Match-on device Authentication

- Using the default algorithm, all biometric algorithm processes (e.g. fingerprint template extraction & matching) happens within the device through the TouchStrip chipset (which is a combination of a swipe sensor and its companion chip).



Product Features

UPEK TCS4 Specification

- Patented TouchStrip CMOS active pixel :
 - Ability to capture wider range of fingerprints according to different environmental conditions and skin types
 - Ability to capture the best-quality fingerprint image
- Active sensor size : 9.6 x 0.2 mm
- Array size : 192 x 4 pixels
- Image resolution : 508 DPI high-resolution imaging





Product Value





Product Benefits

Cost-Effective

Price competitive readers that are also stable

High-Level Security

Provides 3 factor authentication that verifies:

- Something you have (smart card)
- Something you know (PIN/Password)
- Something you are (Fingerprint)

Simple Fingerprint System

Doing away with databases, servers or network connectivity. Instead fingerprint templates are stored and encrypted in the smart card.



Product Application





In what areas can we apply AET65?



e-Commerce



e-Payment



File Encryption



e-Healthcare



e-Government

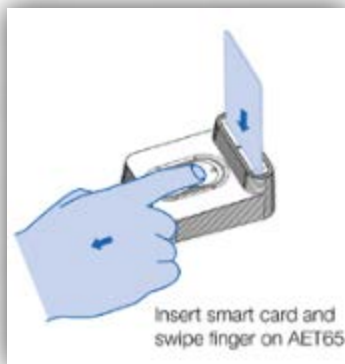


Logical/Physical Access



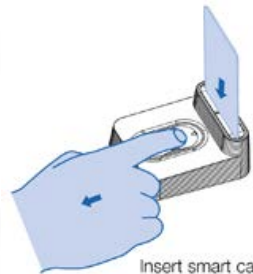
How does AET65 work?

Enrollment

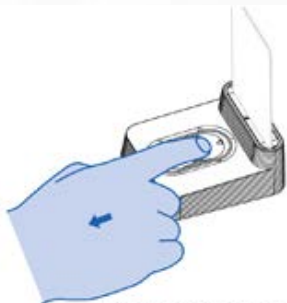
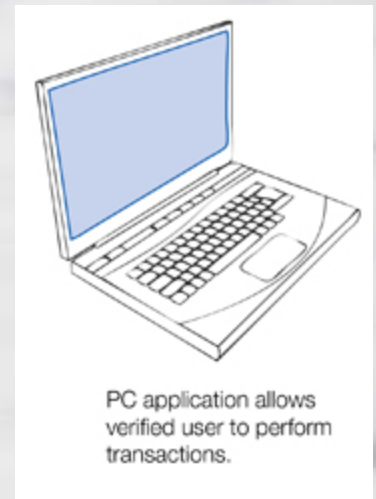


How does AET65 work?

Verification



Insert smart card and swipe finger on AET65.



Swipe finger on AET65.





Thank You!



For more information, visit:

<http://www.acs.com.hk/index.php?pid=products&id=4>