



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



# AET63 BioTRUSTKey

Smart Card / Fingerprint Reader

**A Product Presentation**



# Rundown

1. Product Overview
2. Product Feature
3. Product Value
4. Product Application
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# Product Overview

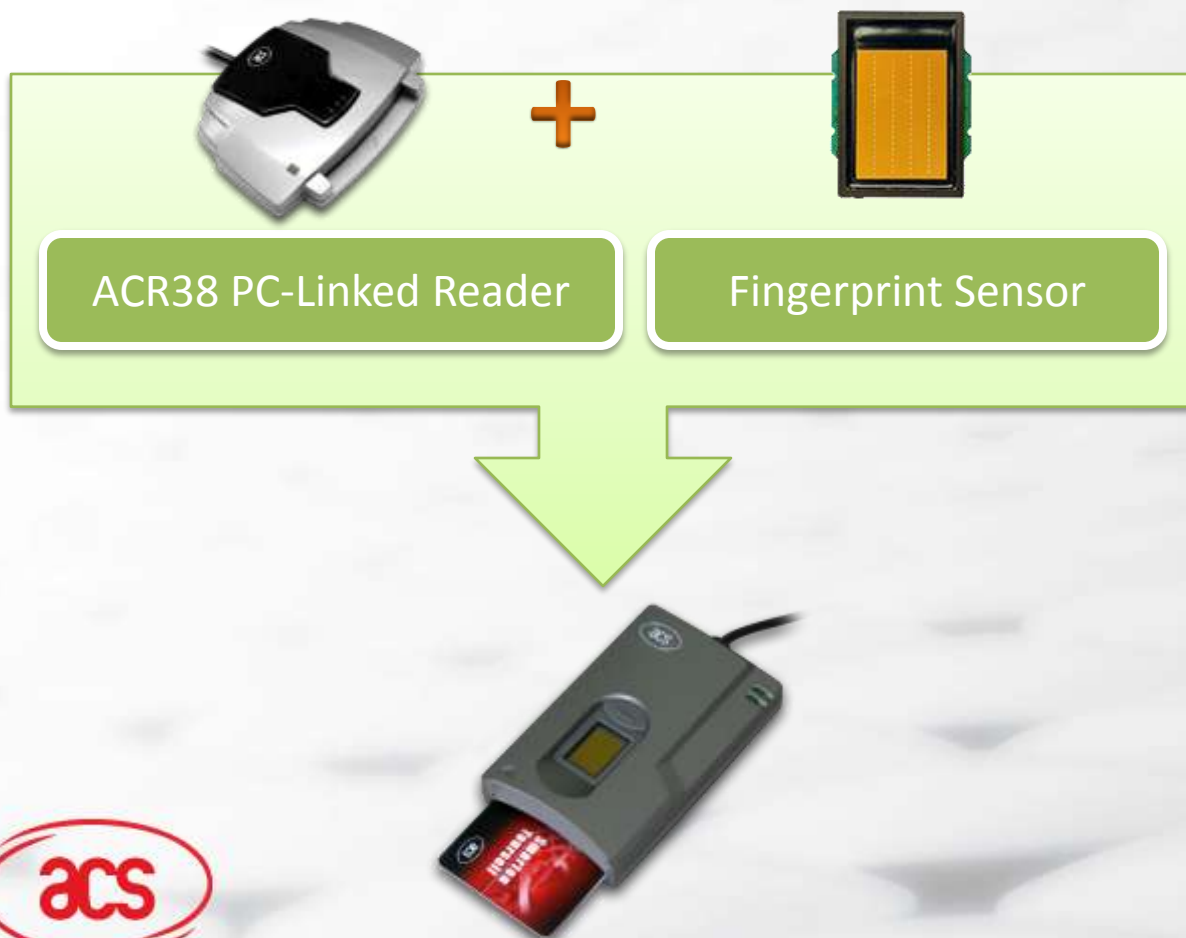


## AET63 BioTRUSTKey

Belongs to the Smart Card-Fingerprint Readers Family – a line featuring smart card-based fingerprint readers that can easily be integrated into a simple yet secure biometric system.



## AET63 BioTRUSTKey



- Combines the highly successful silicon fingerprint sensor & a smart card reader for ultra-secure authentication
- Provides 3-way authentication, verifying something “you have” (smart card), something “you know” (PIN/password) & something “you are” (fingerprint) for high-level security
- Performs template extraction & matching within the device itself – not in the PC – for high-level security

Example: Maximum security for banking transactions





# Product Features

# What are the Key Features of AET63?



## UPEK TCS1 Sensor

The 1<sup>st</sup> FIPS 201-certified FP sensor speaks of reliability

## Encrypted FP Template

Stored in SC for maximum security

## Match-On PC Authentication

For customers who seek security at a lower price

## Supported Card Types

All MCU cards with T=0, T=1 protocols

## User Controllable Peripherals

Windows 98, ME, 2000, XP & Vista

## Certifications/Compliance

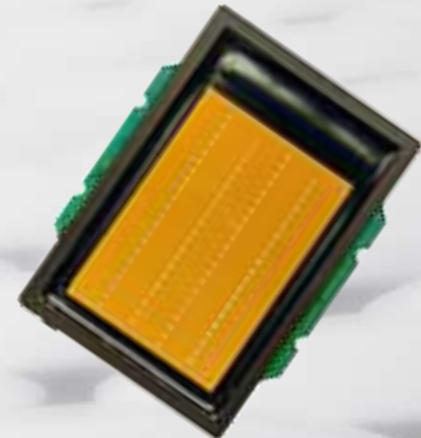
ISO 7816-1/2/3, PC/SC, BioAPI 1.1, CE, FCC & RoHS

## Ease of Application

ACS provides simple API  
Separate or independent usage of SC reader & FP scanner possible

## UPEK TCS1 Sensor

- Large active sensor size (12.8 mm x 18.0 mm)
- High-resolution 508 DPI imaging
- Patented TouchChip active capacitive sensing technology ensures highest image quality





## Match-On PC Authentication

- All biometric algorithm processing (e.g. FP template extraction & matching) happens within the device through the TFM – TouchChip Fingerprint Module (which is a combination of TCS1 sensor + companion chip)



## Ease of Application Development

- Designers can integrate fingerprint authentication into smart card-based applications without an in-depth knowledge of biometrics through ACS's simple API
- Applications can be programmed to accept either 1 of the 2 inputs from AET63 BioTRUSTKey: smart card or fingerprint



# Product Value



# What are the Key Benefits of AET63?



## More Secure than SC-Alone or FP-Alone Readers

Provides 3-factor authentication – verifying something “you have” (SC), something “you know” (PIN/password) & something “you are” (FP)

## More Efficient & Cost-Effective than Conventional FP Scanners

- By storing FP templates in SCs, matching just involves checking live FP against stored template, eliminating the need for a complex back-end system
- Users carry FP templates with them & FP verification authenticates only SC owner, erasing privacy & security concerns posed by lost or stolen cards & dummy FPs

# What are the Key Benefits of AET63?

## Simple API

For straightforward application development

## Simple FP System

- Only AET63 BioTRUSTKey, a PC & contact smart cards, like ACOS cards, needed
- External hardware & software not required
- Super-server, mega-database & complicated software not needed
- Readily deployable in both new & existing, large & small, online & offline projects
- Undemanding system administration & maintenance





# Product Application

# In what areas can we apply AET63?



Secure eCommerce



File Encryption



Secure eGovernment



Logical/Physical Access

# Thank You!!!

*More information on:*

*<http://www.acs.com.hk/aet63.php>*

