



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



# ACR101 SIMicro

PC-Linked Reader with Mass Storage

## Product Presentation





# Rundown



1. Product Overview
2. Product Feature
3. Product Value
4. Product Application
5. Q & A





# Product Overview





## Product Overview

### **ACR101 SIMicro**

The PC-linked Readers with Mass Storage Family is a line of products that features plug-in (SIM-sized) smart card readers with memory storage.

An extension to this product line, ACR101 (CCID) is a compact USB token with an extractable USB connector that features a smart card reader, Micro-SD card slot, and an option to have an embedded Mifare chip for contactless applications.





# Product Features





# Product Features



**Interface**  
USB Combo Device

**Safe and Convenient Usage**  
Short Circuit Protection Feature  
Lightweight Device

**Plug-and-Play Support**  
CCID Compliance  
HID Compliance (upon request)

**Contactless Functionality**  
Embedded Mifare 1K Chip

**Card Type Support**  
SIM-sized  
ISO 7816 Classes A, B, & C  
(5V, 3V, 1.8V)  
MCU with T=0 & T=1 Protocol  
Micro-SD (up to 8 GB memory)  
Spec. 11.11-compliant GSM

**Certifications/Compliance**  
PC/SC, CCID, Microsoft WHQL  
CE, FCC, RoHS, VCCI

**OS Support**  
Windows CE, 98, ME, 2000, XP, Vista, 7  
Server 2003, Server 2008, Server 2008  
R2  
Linux, Mac



## Product Features



### **ACR101 SIMicro**

#### **Plug-and-Play**

**USB Chip/Smart Card Interface Devices (CCID) Standard** - allows users to avoid driver installation prior to use, enabling an easier integration of the device into the PC environment

**USB HID (Human Interface Device) Standard** – sees the device as a computer peripheral that communicates directly to humans by taking input from or delivering output to them





## Product Features



### **ACR101 SIMicro**

#### **SIM Card Reader**

- Accepts most common cards in telecom (GSM, CDMA, etc.), banks, governments, schools & others
- Supports ISO 7816 Class A, B and C cards, all MCU cards with T=0, T=1 protocol, Spec 11.11-compliant cards
- Supports memory cards – *for CCID version*
- PC/SC-compliant



## Product Features



### **ACR101 SIMicro**

#### **SIM Card Reader**

- Secure and reliable firmware written by smart card experts
- USB 2.0 Hi-Speed Interface
- Supports digital signature (PKI) applications





## Product Features

### **ACR101 SIMicro**

#### **Memory Storage Device**

Being a highly portable device, it can support up to 8 GB of expandable Micro-SD memory.





## Optional Product Features



### **ACR101 SIMicro**

#### **Contactless Feature**

An embedded Mifare 1K Chip enables the device to act as a contactless card. This allows the use of the device in a variety of contactless applications, such as physical and logical access control



# Product Value





# Product Benefits



## Cost-Effectiveness

A compact and powerful device that integrates different features into one device

## High-speed I/O Operations

Can support Smart Card R/W Speed of up to 250,000 bps

## High Security

Data that is saved into the Micro-SD is encrypted

Can accommodate Public Key Infrastructure to maximize data protection





# Product Application





# In what areas can we apply ACR101?



**Network Security**



**VoIP**



**Public Key Infrastructure**



**E-Payment**



**E-Government**



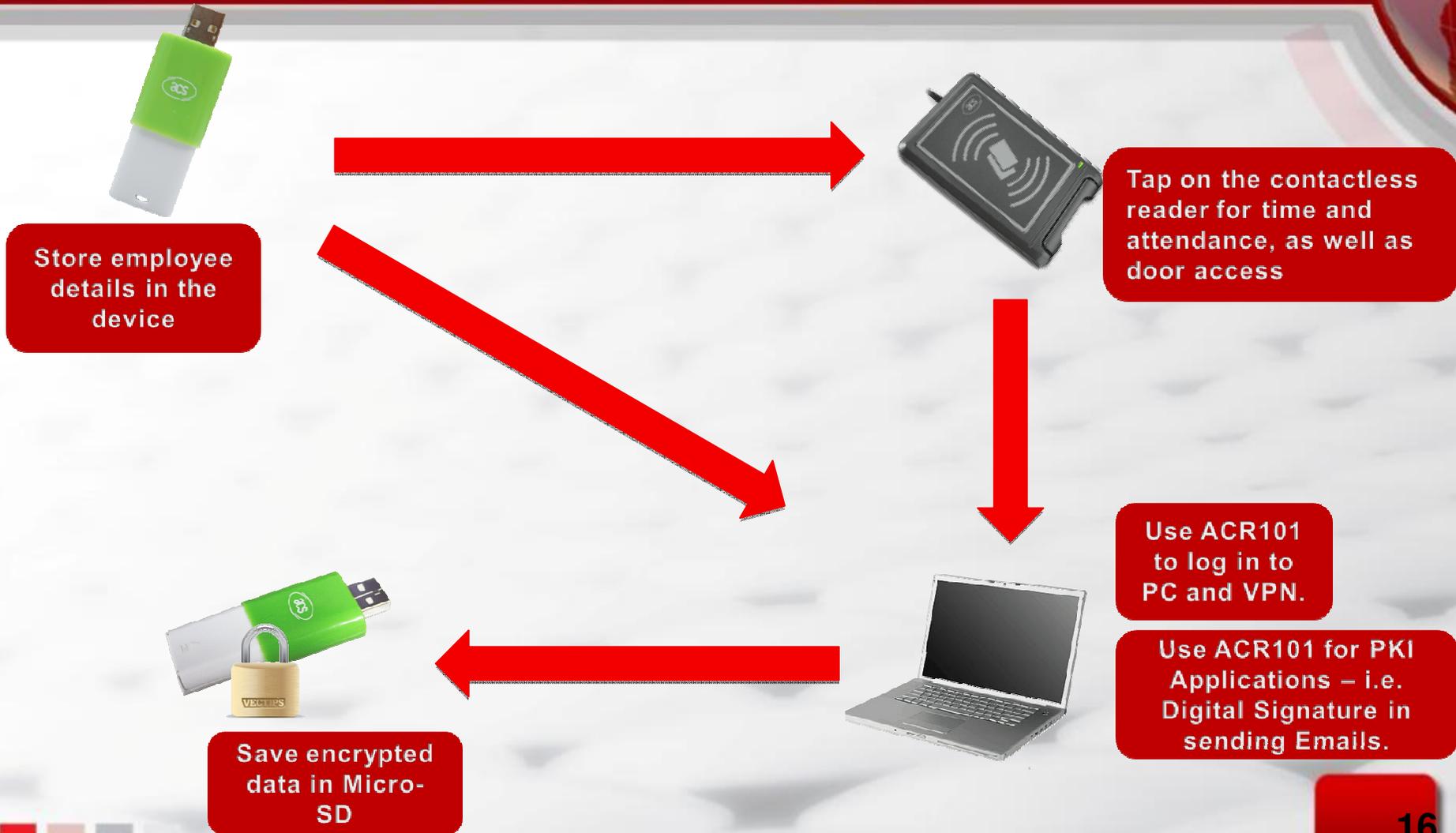
**GSM Management**



**Data Storage**



# ACR101 Sample Application





# Thank You!!!



*More information on:*

*[http://acs.com.hk/index.php?pid=product&prod\\_sections=0&id=ACR101](http://acs.com.hk/index.php?pid=product&prod_sections=0&id=ACR101)*

*<http://www.acr101.com>*