



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



# ACR100I SIMFlash II

PC-Linked Reader with Mass Storage

## Product Presentation





# Rundown



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# Product Overview



# Product Overview

## ACR100I SIMFlash II

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.

The ACR100I is a USB token with an extractable USB connector that features a smart card reader, NAND Flash, and an embedded Mifare chip for contactless applications.





# Product Features





# What are the Key Features of ACR100?



## Plug-and-Play

CCID/HID compliance reduces driver installation issues

## Built-in Flash Drive

Other memory sizes (up to 8GB) are available upon request

## Disk Partitioning Options

Various options for partitioning the flash drive into up to 3 areas

## Contactless Functionality

Embedded Mifare 1K Chip

## Supported Card Types

- Plug-in (SIM-sized) smart cards
- ISO 7816 Class A, B & C cards
- MCU cards with T=0, T=1 protocols
- Most memory cards (for CCID version only)
- Spec. 11.11-compliant GSM cards

## 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

## ACR1001 SIMFlash II

### 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

## ACR1001 SIMFlash II

### 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



## **ACR1001 SIMFlash II**

### **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

## **ACR100I SIMFlash II**

### **Memory Storage Device**

Being a highly portable device, it can support up to 8 GB of NAND Flash Memory.



# Optional Product Features

## **ACR1001 SIMFlash II**

### **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 344,000 bps

## High Security

Data that is saved into the NAND Flash 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**



# ACR100I Sample Application





# Thank You!!!

*More information on:*

*<http://acs.com.hk/index.php?pid=products&id=8>*

