Advanced Card Systems Ltd.





ACR100 SIMFlash

1.0 Introduction



More than just a smart card reader, the ACR100 also has a built-in 256MB flash memory. Designed to access SIM-sized smart cards (Plugin cards) and for data or application storage. It is ideal for GSM solutions such as GSM management software and VoIP applications, electronic payment systems, home banking, computer/network access and transportation.

i) Serves as a Plug-in (SIM-sized) Card Reader:

ACR100 is a reliable and cost-effective smart card reader for security related applications. A USB full speed Plug-in (SIM-sized) card reader that enables you to back-up and manage the information on your SIM card to your PC. It supports MCU cards with T=0 and T=1 protocols and GSM cards conforming to Spec 11.11.

ii) Serves as a Mass Storage Device:

Furthermore, it is a Mass Storage device at the same time. Highly **portable** – with a dimension of 78.73 mm x 21.50 mm x 11.00 mm makes it a perfect companion wherever you go. **Bus powered** – no need for additional cable and power supply. And a **Mass Storage Device Class compatible** – no need for additional drivers.

2.0 Features

- USB full speed interface
- No need for separate power supply or battery Bus powered
- No need to run separate drivers on most Windows version CCID and Mass Storage Device Class compatible
- Automatic driver installation functionality
- USB Composite Device works as Mass Storage and Smart Card Reader
- With protective USB cap, SIM card slot cover and Keychain loop
- Compliant with the following International Standards: ISO7816, CE, FCC, PC/SC, and Microsoft WHQL
- Smart Card Reader:
 - o Read and write all microprocessor cards with T=0, T=1 protocols
 - o Support 5V MCU cards
 - Support GSM card with Spec 11.11
 - Support Plug-in (SIM-sized) card
 - Short Circuit Protection
- Flash Drive:
 - Mass Storage Device Class compatible no driver needed in Windows 2000 and XP
 - Built-in 256MB flash memory (higher memory size is available upon request)
 - Public (free read/write area for data storage) and Private (protected area for pre-loaded applications) zones

3.0 Typical Applications

- GSM Management
- Data Storage
- Home Banking
- Electronic Commerce
- Computer/Network access control
- Digital Signature
- Identification
- Ticketing
- Parking and Toll Collection
- Online Gaming

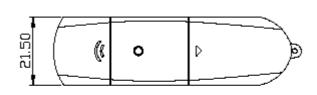
4.0 OEM possibility

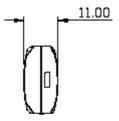
The ACR100 SIMFlash is available for custom branding for promotion purposes. OEM enquiry is welcome.

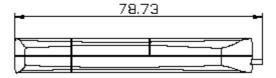
- · Casing color
- Customized logo printing
- Size of flash memory (64MB to 1GB)
- · Other adaptations according to your requirements



5.0 Technical Specification







Power supply

Supply voltage Regulated 5V DC

Supply current < 100mA (without smart card)

Universal Serial Bus Interface

Smart Card Interface

Short circuit protection+5V / GND on all pins

CLK frequency......4 MHz

Card connector sliding contacts (8 contacts)

Card insertion cycles min. 100,000

Flash Memory Interface

 Memory size
 256Mbyte

 Voltage supply
 2.7V ~ 3.6V

 Supply current
 max. 50mA

Data retention 10 Years

Bicolor LED shows the status of smart card and flash memory

Case

Color Translucent Black

Weight 20g

Operating Conditions

Temperature 0 - 50° C

Standards/Certifications

ISO7816 Class A and AB (5V, 3-5V) cards, PC/SC, CE, FCC, Microsoft WHQL

os

Windows 2000, XP





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