



Technical Specifications V4.02



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1.0. Introduction

The ACR100F SIMFlash, being more than just a smart card reader, has a maximum of built-in 8 GB flash memory. Designed both to access plug-in (SIM-sized) smart cards and data or application storage, the ACR100F is ideal for GSM solutions such as GSM management software and VoIP applications. In addition to this, the ACR100F can also be used in different applications, such as electronic payment systems, e-Commerce, home banking, transportation, and computer and network access.

1.1. Plug-in (SIM-sized) Card Reader

ACR100F SIMFlash is a reliable and cost-effective smart card reader for security-related applications. It is a USB high-speed plug-in SIM-sized smart card reader which also works as a mass storage. This feature enables the users to back up their files and manage their SIM card information in the PC. It supports most memory cards, MCU cards with T=0 and T=1 protocols, and GSM cards conforming to Specification 11.11.



1.2. Mass Storage Device

ACR100F SIMFlash is also a mass storage device. With its dimension of 77 mm x 23 mm x 10 mm, it is the perfect companion wherever you go. Various options for partitioning the flash drive are also available – CD-ROM, boot disk and public, and lock and hidden areas are all accessible in the same device.

1.3. Plug and Play Feature

With ACR100F SIMFlash being compliant with the Chip/Smart Card Interface Devices (CCID) and PC/SC standards, it is easier to integrate into a PC environment by eliminating driver installation prior to use. In addition, ACR100F SIMFlash can now be used on mobile devices running the Android™ platform with versions 3.1 and above.

With its wide array of features, ACR100F SIMFlash can be used in various application areas, such as Public Key Infrastructure (PKI), network security and GSM management.



2.0. Features

- USB Combo Device Works as a smart card reader and mass storage
- USB 2.0 High-speed Interface
- Bus-powered No need for separate power supply or battery
- Plug and Play CCID support brings utmost mobility
- With protective USB cap and keychain loop
- Smart Card Reader:
 - Supports ISO 7816 Class A, B and C (5 V, 3 V, 1.8 V) SIM-sized cards
 - Supports microprocessor cards with T=0 or T=1 protocol
 - Supports memory cards using Synchronous Card APDU
 - Supports Specification 11.11-compliant GSM cards
 - o Supports PPS (Protocol and Parameters Selection)
 - Features Short Circuit Protection
- Application Programming Interface:
 - o Supports PC/SC
 - Supports CT-API (through wrapper on top of PC/SC)
- Flash Drive:
 - o Maximum of 8 GB memory
 - Division of up to three partitions (Private/Security, Public and CD-ROM/Autorun, and Hidden)
- Supports Android™ 3.1 and above
- Compliant with the following standards:
 - o ISO 7816
 - o CE
 - o FCC
 - o PC/SC
 - CCID
 - Microsoft® WHQL
 - o RoHS

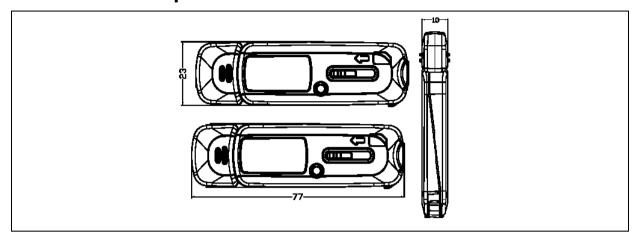


3.0. Typical Applications

- e-Government
- e-Banking and e-Payment
- Public Key Infrastructure
- Network Security
- GSM Management
- VolP
- Data Storage



4.0. Technical Specifications



Universal Serial Bus Interface

Type USB High-speed, Four Line: +5 V, GND, D+ and D-

Power Source......From USB SpeedMax. 480 Mbps

Smart Card Interface

Standard ISO 7816 Class A, B and C (5 V, 3 V, 1.8 V), T=0 and T=1

Flash Memory Interface

 Memory Size
 Max. 8 GB

 Voltage Supply
 2.7 V ~ 3.6 V

 Supply Current
 Max. 70 mA

Data Retention 10 years

Physical Specifications

Color Black Weight 20 g

Built-in Peripheral

LED...... Bi-color LED, Red and Green

Operating Conditions

 Temperature
 0 °C - 50 °C

 Humidity
 10% - 90%

 MTBF
 500,000 hrs

Application Programming Interface

PC/SC

CT-API (through wrapper on top of PC/SC)

Certifications/Compliance

ISO 7816, PC/SC, CCID, CE, FCC, RoHS

 ${\tt Microsoft@WHQL\ for\ Windows@\ 2000,\ Windows@\ XP,\ Windows\ Vista@,\ Windows@\ 7,\ Windows@\ 8,}$

Windows® 8.1, Windows® Server 2003, Windows® Server 2008, Windows® Server 2008 R2,

Windows® Server 2012, Windows® Server 2012 R2



Device Driver Operating System Support
Windows® CE, Windows® 98, Windows® ME, Windows® 2000, Windows® XP, Windows Vista®, Windows® 7, Windows® 8, Windows® 8.1, Windows® Server 2003, Windows® Server 2003 R2, Windows® Server 2008, Windows® Server 2008 R2, Windows® Server 2012, Windows® Server 2012 R2 Linux®, Mac OS®, Android™ 3.1 and above



























