



Advanced Card Systems Ltd.
Card & Reader Technologies

ACR92



Technical Specifications



Table of Contents

1.0.	Introduction	3
2.0.	Features	4
3.0.	Typical Applications	5
4.0.	Technical Specifications	6



1.0. Introduction

The ACR92 is a specially designed smart card peripheral for notebook and portable computers and complies with all major standards including PC/SC, FCC and ISO 7816. It is also EMV Level 1 Certified which makes it suitable for applications related to banking services and credit card payments.

The ACR92 is easy to install and use. It establishes a uniform interface between the computer and the smart card for a wide variety of cards. By taking care of the card specific particulars, the software engineers need not to understand the full technical details of the smart card/computer interface to carry out the implementation of a smart card system. It also allows future firmware and application upgrade.





2.0. Features

- Read and write all microprocessor cards (MCU) with T=0 and T=1 protocols
- Support 5V and 3V smart cards
- Certificate of conformance: PC/SC, FCC, EMV 2000 Level1
- ISO7816-Class A and AB
- On-board flash provides firmware upgrades
- Transmission speed (with PC: 16Mbit/sec)
- Transmission speed (with Card: up to 344Kbit/sec)
- Win 98/ME/NT4/2000/XP/Server 2003/Vista/Linux, MacOS X
- 8MHz CLK frequency
- Sliding connectors (8 contacts)
- Min 100,000 card insertion cycles
- Microsoft PC/SC compliant application programming interface
- Stainless steel case material
- 30g weight
- Compliant to PCMCIA mechanical specifications



3.0. Typical Applications

- Home Banking and Home Shopping
- Electronic Commerce
- Network access control
- Digital signature
- Physical access control
- Identification
- Online gaming



4.0. Technical Specifications



Power supply

Host Interface.....PCMCIA Type II
Supply voltage5V

API

TypePC/SC, CT-API

Smart Card Interface

StandardISO 7816 Class A and AB
Protocol..... T=0, T=1
Smart card read / write speed.....344,105 bps
CLK frequency8MHz
Card connectorsliding contacts (8 contacts)
Card insertion cycles..... 100,000 insertions

Interface

TypePCMCIA, Plug and Play support

Physical Specifications

TypePCMCIA Type II card
Dimensions85.6 x 54 x 5 mm
Case material.....Stainless steel
Weight.....30g

Operating Conditions

Temperature 0 - 50° C

Certifications/Compliance

FCC, VCCI, cULus, RoHS Compliant, Microsoft WHQL 2000, Server 2003, XP, Vista, 7

Device Driver Operating System Support

Windows © 98, ME, 2000, Server 2003, XP, Vista, Server 2008, 7
Linux, Mac OS X

