

ACR39T-A1 (USB Type A) Smart Card Reader

Technical Specifications V1.11







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1.0. Introduction

The ACR39T-A1 hails new and modern technology in the world of smart card readers. It is a SIM-sized smart card reader that is small in size but packs a lot of features. Being a compact and powerful smart card reader, the ACR39T-A1 brings together sophisticated technology with modern design to meet rigorous requirements in various smart card–based applications.



1.1. Smart Card Reader

The ACR39T-A1 supports ISO 7816 Class A, B, and C smart cards (5 V, 3 V, and 1.8 V) and works well with most memory cards and microprocessor cards with the T=0 and T=1 protocol. It also features a USB Full Speed interface and a smart card read/write speed of up to 600 Kbps. This makes it ideal for a broad range of solutions, such as Physical and Logical Access Control, Digital Signature, and Online Banking.

1.2. Ease of Integration

The ACR39T-A1 has PC/SC and CCID compliance, making it easy to install and use as it is specifically designed to be integrated into any computer-based environment. Its drivers are compatible with operating systems such as Windows®, Linux®, Mac OS®, and Solaris. In addition, the ACR39T-A1 may now be used with mobile devices running the Android[™] platform with versions 3.1 and later.

With its numerous features, the ACR39T-A1 is clearly the perfect smart card reader for your smart card solution.

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2.0. Features

- USB 2.0 Full Speed Interface (Compatible with USB 3.0)
- USB Type A Connector
- Plug and Play CCID support brings utmost mobility
- Includes protective USB cap
- Smart Card Reader:
 - Contact Interface:
 - Supports ISO 7816 Class A, B, and C (5 V, 3 V, 1.8 V) SIM-sized cards
 - Supports microprocessor cards with T=0 and T=1 protocol
 - Supports memory cards
 - Supports PPS (Protocol and Parameters Selection)
 - Features Short Circuit Protection
- Application Programming Interface:
 - Supports PC/SC
 - Supports CT-API (through wrapper on top of PC/SC)
- Supports Android[™] 3.1 and later¹
- Compliant with the following standards:
 - EN 60950/ IEC 60950
 - CE
 - o FCC
 - o RoHS
 - o UKCA
 - o VCCI
 - o ISO 7816
 - o PC/SC
 - o CCID
 - o Microsoft® WHQL

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¹Uses an ACS-defined Android Library



3.0. Supported Card Types

3.1. MCU Cards

ACR39T-A1 operates with MCU cards following either the T=0 or T=1 protocol.

3.2. Memory-based Smart Cards

ACR39T-A1 works with several memory-based smart cards such as:

- Cards with intelligent 1 KB EEPROM with write-protect function, including:
 - Infineon®: SLE4418, SLE4428, SLE5518 and SLE5528
- Cards with intelligent 256-byte EEPROM with write-protect function, including:
 - o Infineon®: SLE4432, SLE4442, SLE5532 and SLE5542

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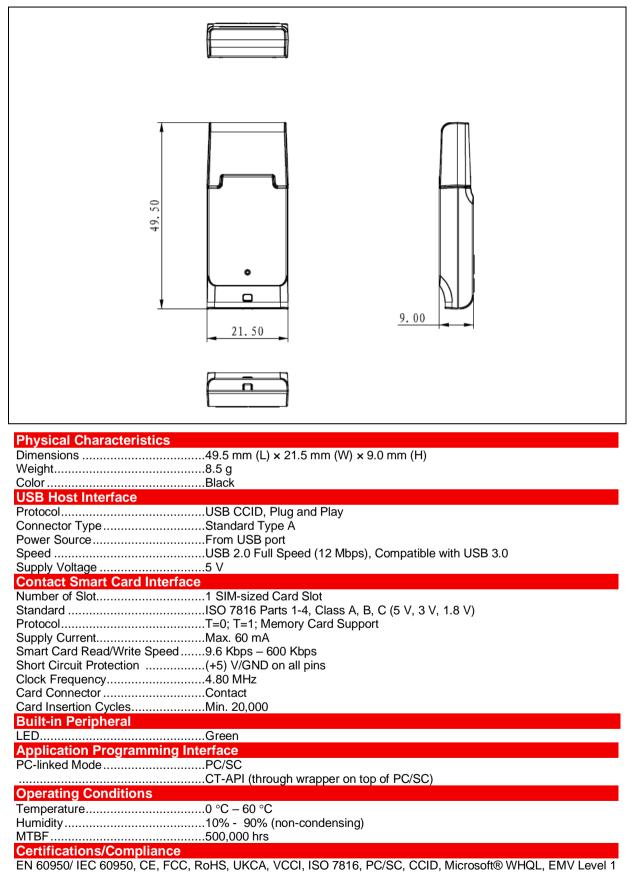
4.0. Typical Applications

- e-Government
- e-Banking and e-Payment
- e-Healthcare
- Public Key Infrastructure
- Network Security
- Access Control
- Loyalty Program

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5.0. Technical Specifications





Device Driver Operating System Support Windows® 7, Windows® 8, Windows® 8.1, Windows® 10, Windows® 11

Windows® Server 2003, Windows® Server 2008, Windows® Server 2008 R2, Windows® Server 2012, Windows® Server 2012 R2, Windows® Server 2016

Linux®, Mac OS®, Solaris, Android™ 3.1 and later







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6.0. Opening the SIM card cover

1. Open the SIM card cover from the back part of the reader.



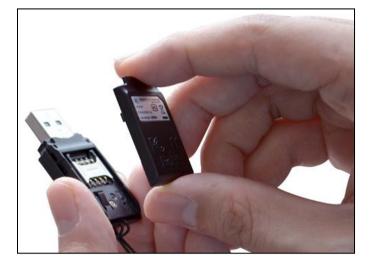
2. Pull out the back cover from the top end.



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3. Remove the cover completely to insert/remove the SIM card to/from the reader.



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