



acs ACR39T-A1 Smart Card Reader User Manual

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**ACR39T-A1
User Manual**



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ACR39T-A1 Smart Card Reader

Dear customer,

Thank you for purchasing our product. Please read the following instructions carefully before first use and keep this user manual for future reference. Pay particular attention to the safety instructions. If you have any questions or comments about the device, please contact the customer line.

✉ www.alza.co.uk/kontakt

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Importer Alza.cz a.s., Jankovcova 1522/53, Holešovice, 170 00 Prague 7, www.alza.cz

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 cardbased applications.

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 600Kbps. This makes it ideal for a broad range of solutions, such as Physical and Logical Access Control, Digital Signature, and Online Banking.



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 version 3.1 and later.

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

Features

- USB 2.0 Full Speed Interface
- USB Type A Connector
- Plug and Play – CCID support brings utmost mobility
- Includes protective USB cap
- Smart Card Reader:
 - o Contact Interface.
 - Support ISO 7816 Class A, B, and C (5 V, 3 V, 1.8V) 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:
 - o Supports PC/SC
 - o Supports CT-API (through wrapper on top of PC/SC)
 - Supports Android™ 3.1 and later
- Compliant with the following standards:
 - o EN 62368/IEC 62368
 - o CE
 - o FCC
 - o RoHS
 - o REACH
 - o UKCA
 - o VCCI
 - o WEEE
 - o ISO 7816
 - o PC/SC
 - o CCID
 - o Microsoft® WHQL

Supported Card Types

MCU Cards

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

Memory-based Smart Cards

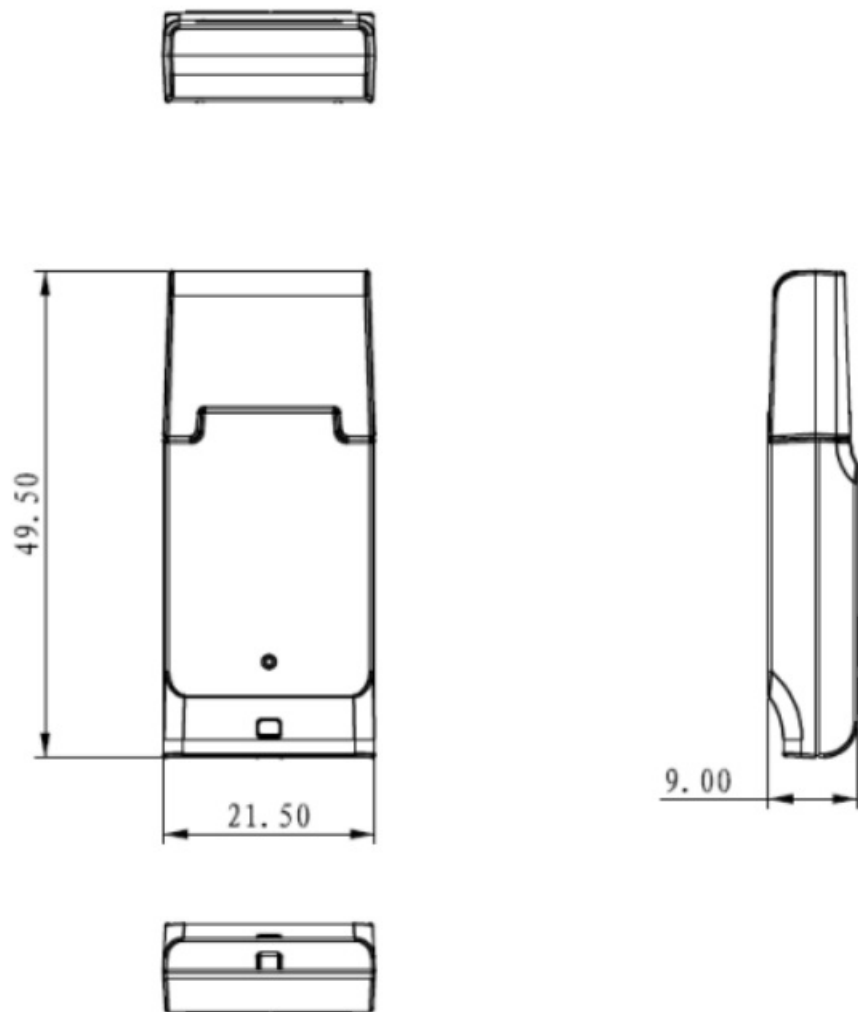
ACR39T-A1 works with several memory-based smart cards such as:

- Cards with intelligent 1 KB EEPROM with write-protect function, including:
 - o Infineon : SLE4418, ALE4428, SLE5518 and SLE5528
- Cards with intelligent 256-byte EEPROM with write-protect function, including:
 - o Infineon : SLE4432, SLE4442, SLE5532 and SLE5542

Typical Applications

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

Technical Specifications



Physical Characteristics	
Dimensions	49.5 mm (L) x 21.5 mm (W) x 9.0 mm (H)

Weight	8.5 g
Color	Black
USB Host Interface	
Protocol	USB CCID
Connector Type	Standard Type A
Power Source	From USB port
Speed	USB 2.0 Full Speed (12 Mbps)
Supply Voltage	5 V
Contact Smart Card Interface	
Number of Slot	1 SIM-sized Card Slot
Standard	ISO 7816 Parts 1-4, Class A, B, C (5 V, 3 V, 1.8 V)
Protocol	T=0, T=1, Memory Card Support
Supply Current	Max. 50 mA
Smart Card Read/Write Speed	9.6 Kbps – 600 Kbps
Short Circuit Protection	(+5) V/GND on all pins
Clock Frequency	4.8 MHz
Card Connector	Contact

Card Insertion Cycles	Min. 10,000 (Min. 30,000 upon request)
Built-in Peripheral	
LED	Green
Application Programming Interface	
PC-linked Mode	PC/SC CT-API (through wrapper on top of PC/SC)
Operating Conditions	
Temperature	0°C – 60°C
Humidity	Max. 90% (non-condensing)
MTBF	500,000 hrs

Certifications/Compliance

EN 62368/IEC 62368, CE, FCC, RoHS, REACH, UKCA, VCCI, WEEE, ISO 7816, USB 2.0 Full Speed, PC/SC, CCID, Microsoft WHQL

Device Driver Operating System Support

Windows 7, Windows 8, Windows 8.1, Windows 10

Windows Server 2003, Windows Server 2008, Windows Server 2008 R2, Windows Server 2012, Windows Linux, Mac OS, Solaris, Android 3.1 and later



Opening the SIM card cover

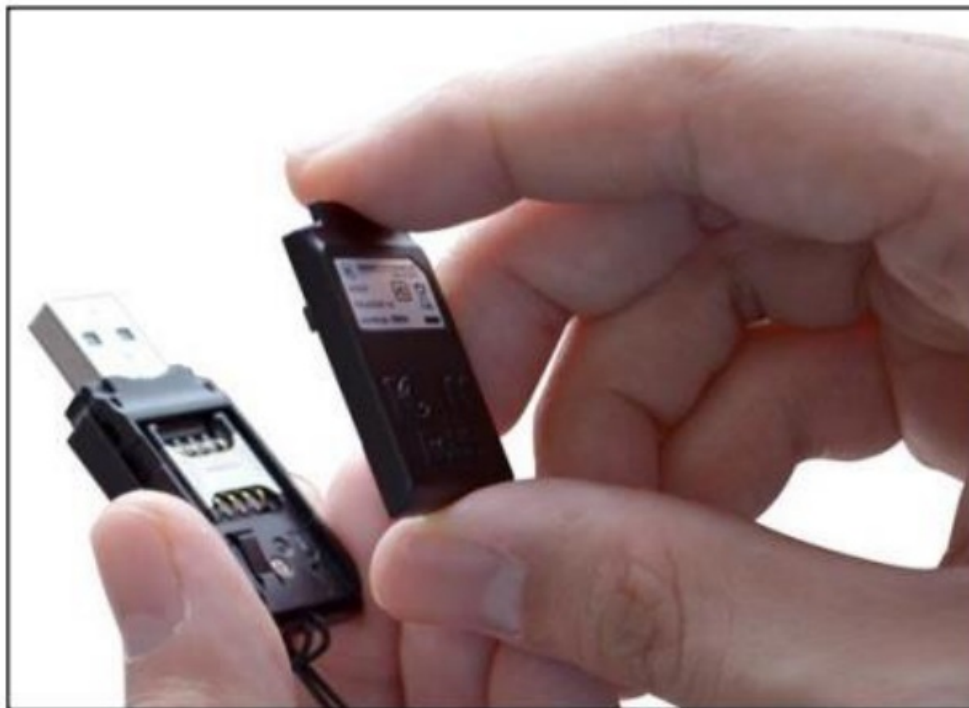
Open the SIM card cover from the back part of the reader.



Pull out the back cover from the top end.



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



Warranty Conditions

A new product purchased in the Alza.cz sales network is guaranteed for 2 years. If you need repair or other services during the warranty period, contact the product seller directly, you must provide the original proof of purchase with the date of purchase.

The following are considered to be a conflict with the warranty conditions, for which the claimed claim may not be recognized:

- Using the product for any purpose other than that for which the product is intended or failing to follow the instructions for maintenance, operation, and service of the product.
- Damage to the product by a natural disaster, the intervention of an unauthorized person or mechanically through the fault of the buyer (e.g., during transport, cleaning by inappropriate means, etc.).
- Natural wear and aging of consumables or components during use (such as batteries, etc.).
- Exposure to adverse external influences, such as sunlight and other radiation or electromagnetic fields, fluid intrusion, object intrusion, mains overvoltage, electrostatic discharge voltage (including lightning), faulty supply or input voltage and inappropriate polarity of this voltage, chemical processes such as used power supplies, etc.
- If anyone has made modifications, modifications, alterations to the design or adaptation to change or extend the functions of the product compared to the purchased design or use of non-original components.

CE EU Declaration of Conformity

Identification data of the manufacturer's / importer's authorized representative: Importer: Alza.cz a.s.

Registered office: Jankovcova 1522/53, Holešovice, 170 00 Prague 7

CIN: 27082440

Subject of the declaration:

Title: Smart Card Reader

Model / Type: ACR39T-A1

The above product has been tested in accordance with the standard(s) used to demonstrate compliance with the essential requirements laid down in the Directive(s):

Directive No. 2014/30/EU



WEEE









This product must not be disposed of as normal household waste in accordance with the EU Directive on Waste Electrical and Electronic Equipment (WEEE – 2012/19 / EU).

Instead, it shall be returned to the place of purchase or handed over to a public collection point for the recyclable waste. By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product. Contact your local authority or the nearest collection point for further details. Improper disposal of this type of waste may result in fines in accordance with national regulations.

Documents / Resources

  ACR39T-A1 <small>User Manual -> Download manual -> Výhradní servis -> Download manual -> Manual Download</small>	acs ACR39T-A1 Smart Card Reader [pdf] User Manual ACR39T-A1 Smart Card Reader, ACR39T-A1, Smart Card Reader, Card Reader, Reader
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References

-  [Alza.sk – rýchly a pohodlný nákup odkiaľkoľvek | alza.sk](#)
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-  [alza.hu](#)
-  [alza.sk](#)