![Advanced Card Systems Ltd. logo — acs — Card & Reader Technologies]

CONTACT SMART CARD READER

ACR39T

STYLISH & VERSATILE

ACR39T-A1
USB Type-A

ACR39T-A5
USB Type-C

ACR39T is a high-speed USB contact SIM-sized smart card reader with a wide spectrum of features. It supports firmware upgrade, as well as ISO 7816 Class A, B and C smart cards (5 V, 3 V, 1.8 V), microprocessor cards with the T=0, T=1 protocol, and a wide variety of memory cards in the market.

The reader 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.

Compliant with both CCID and PC/SC as well as Microsoft® WHQL, ACR39T designed to be integrated into any computer-based environment. Its drivers are also compatible with various operating systems such as Android™, Linux®, macOS, Solaris™ and Windows®, and is available in both USB Type-A and USB Type-C respectively.

KEY FEATURES

☑ **Supports Various Types of Contact Cards**
- ISO 7816 Class A, B and C (5 V, 3 V and 1.8 V)
- Microprocessor Card (T=0, T=1)
- Memory Card
- Memory-Based Smart Cards
  - Cards with intelligent 1 KB EEPROM with write-protect function:
    - Infineon®: SLE4418, SLE4428, SLE5518 and SLE5528
  - Cards with intelligent 256-byte EEPROM with write-protect function:
    - Infineon®: SLE4432, SLE4442, SLE5532 and SLE5542

☑ **Reliable**
- Certified for International Regulations
  - EN 62368/IEC 62368, CE, UKCA, FCC, RoHS, REACH, VCCI, WEEE, Microsoft® WHQL
- Mean Time Between Failures (MTBF) up to 600k Hours
- Card Insertion Cycles: 30k Times
- Short Circuit Protection
- PPS (Protocol and Parameters Selection)

☑ **Compatible**
- Supports All Major Operating Systems
  - Windows®, Linux®, macOS, Android™, Solaris™

COMMON APPLICATIONS

e-Government

e-Banking and e-Payment

e-Healthcare

Network Security

Access Control

Public Key Infrastructure

e-Purse & Loyalty

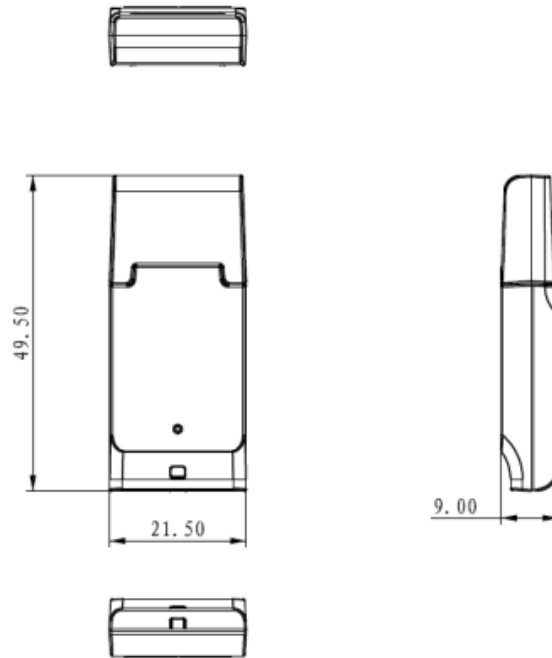**www.acs.com.hk**

info@acs.com.hk

TECHNICAL SPECIFICATIONS

Contact Smart Card Interface	
Number of Slot(s)	1 SIM-Sized Card Slot (2FF)
Supported Card Types	ISO 7816 Parts 1-4, Class A, B, C (5 V, 3 V, 1.8 V), Microprocessor Card (T=0, T=1), Memory Card, Memory-Based Smart Cards
Supply Current	Max. 50 mA
Read/Write Speed	9.6 – 600 Kbps
Clock Frequency	4.80 MHz; Operates Up to 16MHz
Card Connector	6pin Contact
Card Insertion Cycles	Min. 30,000
PPS (Protocol and Parameters Selection)	Supported
Short Circuit Protection	Supported

Host Interface	
Protocol	USB CCID
Connector Type	Standard Type-A/Type-C
USB Interface	USB 2.0 Full Speed (12Mbps) Compatible with USB 3.0
Supply Voltage	5 V

Application Programming Interface	
PC-Linked Mode	PC/SC

Physical Characteristics	
Dimensions	49.5 mm (L) × 21.5 mm (W) × 9.0 mm (H)
Weight	7.08 g ± 0.71 g
Available Colour(s)	Black

Peripherals	
LED	Green

Operating Conditions	
Temperature	0 - 60°C
Humidity	90% (Non-Condensing)
MTBF	500,000 Hours

Certifications & Compliances	
Certifications	EN 62368/IEC 62368, CE, UKCA, FCC, RoHS, REACH, VCCI, WEEE, Microsoft® WHQL
Compliances	USB CCID, PC/SC

Drivers & Support	
Driver Supported OS	Windows®, Linux®, macOS, Android™, Solaris™
Plug and Play	Supported

Model/Part Number	
Default	ACR39T-A1 (USB Type-A)
	ACR39T-A5 (USB Type-C)

MECHANICAL SPECIFICATIONS

About ACS

Advanced Card Systems Ltd. (ACS), founded in 1995, is Asia Pacific's top supplier and one of the world's top 3 suppliers of PC-linked smart card readers. ACS is the winner of the Product Quality Leadership Award for Smart Card Readers from Frost & Sullivan. In 2010, 2014 and 2015, ACS was listed in Forbes Asia's "Best Under a Billion" list, an inter-industry list comprised of 200 top-performing publicly listed companies in the Asia-Pacific, with sales between US$5 million and US$1 billion. ACS develops a wide range of high-quality smart card reading/writing devices, smart cards and related products and distributes them to over 100 countries worldwide.

Click here for Sales Enquiry
Tel: +852-2796-7873
Fax: +852-2796-1286

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