CONTACT SMART CARD READER

ACR40T

COMPACT & MODERN

WORLD'S SMALLEST
SIM-SIZED CARD READER

ACR40T-A1/A6
USB Type-A

ACR40T-A5/A7
USB Type-C

Introducing the ACR40T, ACS's latest compact high-speed USB contact SIM-sized smart card reader. It provides seamless support for **ISO 7816 Class A, B, and C smart cards, microprocessor cards using T=0 and T=1 protocols**, and a wide range of memory cards available in the market.

In addition to the standard version, ACR40T is available in **premium**, providing users with a **configurable built-in button** for user-defined secure application usage. This function is essential for acknowledging user presence as it ensures that the user is physically present in order to interact with the application.
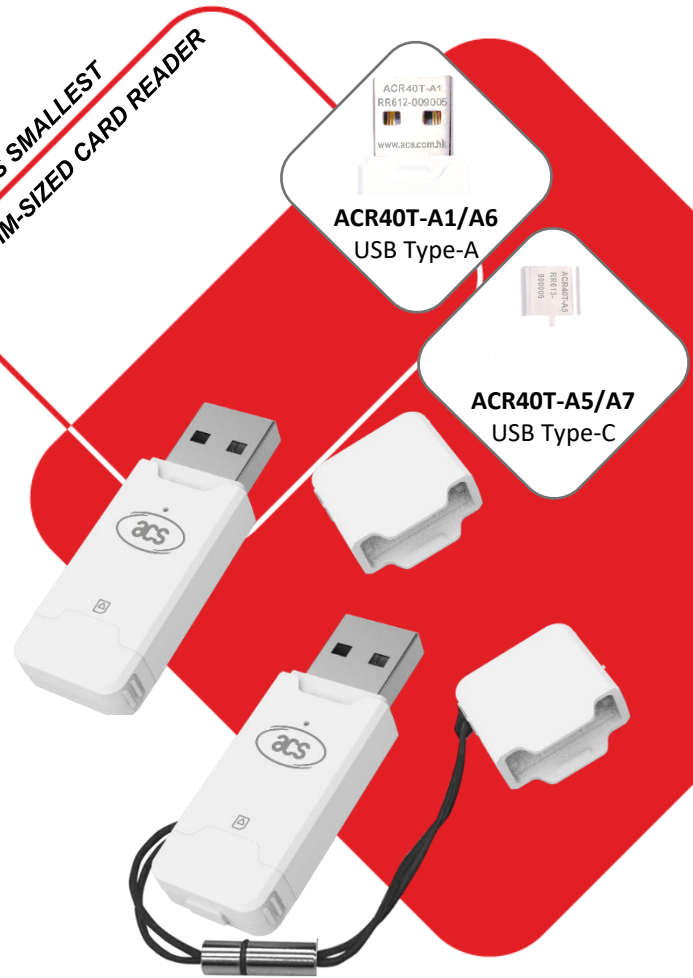
The ACR40T is compliant with CCID, PC/SC, and Microsoft® WHQL standards, ensuring seamless integration with various operating systems such as **Windows®, Linux®, macOS, and Android™**.

Both **USB Type-A** and **USB Type-C** interfaces are available, providing flexible connectivity options.

KEY FEATURES

- ☑ **Multiple Configurations**
    - o Standard: Basic card read/write support
    - o Premium: Built-in button for user-defined secure application usage (i.e. multi-factor authentication)
- ☑ **Supports Various Types of Contact Cards**
    - o ISO 7816 Class A, B and C (5 V, 3 V and 1.8 V)
    - o Microprocessor Card (T=0, T=1)
    - o Memory Card
- ☑ **Supports Firmware Upgrade**
- ☑ **Supports User Data Storage**
- ☑ **Reliable**
    - o Certified for international regulations
        - ▪ UL 62368, CE, UKCA, FCC, RoHS, REACH, VCCI, Microsoft® WHQL
- ☑ **Compatible**
    - o Supports all major operating systems
        - ▪ Windows®, Linux®, macOS, Android™

COMMON APPLICATIONS

e-Government
e-Banking and e-Payment
e-Healthcare
Public Key Infrastructure
Network Security

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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
Supply Current	Max. 50 mA
Read/Write Speed	9.6 – 600 Kbps
Clock Frequency	4.80 MHz; Operates Up to 16MHz
Card Connector	Contact
Card Insertion Cycles	Min. 100,000
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

Other Features	
Firmware Upgrade	Supported
User Data Storage	Supported

Model/Part Number	
Standard [No loop string included]	ACR40T-A1 (USB Type-A)
	ACR40T-A5 (USB Type-C)
Premium [Built-in button and loop string included]	ACR40T-A6 (USB Type-A)
	ACR40T-A7 (USB Type-C)

Physical Characteristics	
Dimensions	**ACR40T-A1:** 48.9mm (L) × 17.7mm (W) × 8.0mm (H)
	ACR40T-A5: 44.7mm (L) × 17.7mm (W) × 8.0mm (H)
	ACR40T-A6: 49.5mm (L) × 17.7mm (W) × 8.0mm (H)
	ACR40T-A7: 45.9mm (L) × 17.7mm (W) × 8.0mm (H)
Weight	**ACR40T-A1:** 6.8 g ± 1.0 g
	ACR40T-A5: 5.3 g ± 1.0 g
	ACR40T-A6: 8.1 g ± 1.0 g
	ACR40T-A7: 6.2 g ± 1.0 g
Available Colour	White

Peripherals	
LED	Green

Operating Conditions	
Temperature	0 - 65°C
Humidity	95% (Non-Condensing)
MTBF	600,000 Hours

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

Drivers & Support	
Driver Supported OS	Windows®, Linux®, macOS, Android™

MECHANICAL SPECIFICATIONS
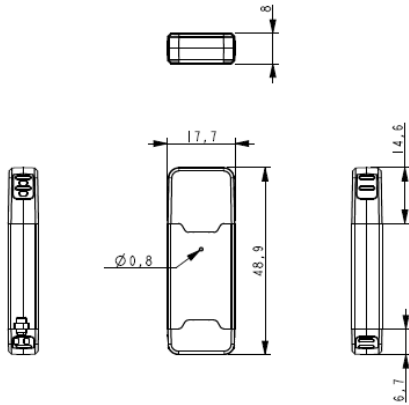
Pictured Above: ACR40T-A1 [Type-A][1]
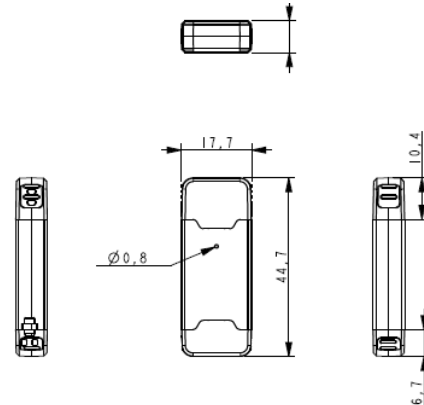
Pictured Above: ACR40T-A5 [Type-C][1]

[1] *Note: Both ACR40T-A6 [Type-A] and ACR40T-A7 [Type-C] contain a built-in button on the rear end of the reader.*

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.

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