

### Contact Smart Card Reader ACS - ACR40T

- ISO/IEC 7816 Parts 1-4
- ISO/IEC 7816 Class A, B and C (5 V, 3 V, 1.8 V)
- USB CCID and PC/SC compliant
- Supports SIM-sized smart cards
- Available with USB Type-A and USB Type-C



### Contact Smart Card Reader Secure Authentication Applications

The ACR40T from Advanced Card Systems Ltd. is a compact and high-speed USB contact smart card reader designed for secure authentication and identity applications. Supporting ISO/IEC 7816 compliant smart cards, including microprocessor and memory cards, the reader enables reliable and secure data exchange across enterprise and government systems.

Available in standard and premium versions, the ACR40T offers flexible deployment options, including models with an integrated user presence button for secure authentication workflows such as multi-factor authentication. Its CCID and PC/SC compliance ensures seamless integration with major operating systems and existing smart card infrastructures.

With its ultra-small form factor, flexible USB connectivity and enterprise-grade reliability, the ACR40T is ideal for secure desktop authentication, PKI deployments and digital identity applications.

### Common Applications

- Public Key Infrastructure (PKI)
- e-Government and national ID systems
- Secure network login
- Banking and financial authentication
- Healthcare systems
- Digital signature solutions



## 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/Parameters Selection)	Supported
Short Circuit Protection	Supported

### Host Interface

Protocol	USB CCID
Connector Type	ACR40T-A1/A6: USB Type-A ACR40T-A5/A7: USB Type-C
USB Interface	USB 2.0 Full Speed (12Mbps)
Supply Voltage	5 V

### Application Programming Interface

PC-Linked Mode	PC/SC
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### Other Features

Firmware Upgrade	Supported
User Data Storage	Supported

### 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
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### Operating Conditions

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

### Certifications / Compliances

Standards	USB CCID, PC/SC, Microsoft® WHQL, TAA
Regulatory / Environmental	UL 62368, CE, UKCA, FCC, RoHS, REACH, VCCI, WEEE

### OS Support

Supported OS	Windows®, Linux®, macOS, iOS, iPadOS, Android
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### Model / Part Number

Standard [No loop string included]	ACR40T-A1 (USB Type-A) ACR40T-A5 (USB Type-C)
Premium [Built-in button & loop string included]	ACR40T-A6 (USB Type-A) ACR40T-A7 (USB Type-C)