

Contact Smart Card Reader ACR40T

General

ACR40T is ACS's newest compact high-speed USB contact SIM-sized smart card reader. It supports firmware upgrade, as well as ISO 7816 Class A, B and C smart cards(5V, 3V, 1.8V), microprocessor cards with the T=0, T=1 protocol, and a wide variety of memory cards in the market.

Combining sophisticated and ground-breaking modern technology, the competitive advantage of ACR40T lies in its compact size and sliding smart card entry slot, allowing for hassle-free application.

ACR40T is also available in premium, providing users with a built-in button for specific application usage. This function is also essential for acknowledging user presence as it ensures that the user is physically present in order to interact with the application.

Compliant with both CCID and PC/SC as well as Microsoft® WHQL, ACR40T is also compatible with various operating systems such as Windows®, Linux®, macOS, Android™, and is able to connect with both USB Type-A and USB Type-C respectively.

Features

- Standard: Basic card read/write support
- Premium: Built-in button for user-defined secure application usage (i.e. multi-factor authentication)Memory Card
- Certified for international regulations
- ISO 7816 Class A, B and C (5 V, 3 V and 1.8 V)
- Microprocessor Card (T=0, T=1)
- Memory Card
- Certified for international regulations
UL 62368, CE, UKCA, FCC, RoHS, REACH, VCCI, Microsoft® WHQL
- Mean Time Between Failures (MTBF) up to 600k Hours
- Card Insertion Cycles: 100k Times
- Short Circuit Protection
- Supports all major operating systems
Windows®, Linux®, macOS, Android™
- Supports firmware upgrade

Specifications

Contact Smart Card Interface	
Number of Slot(s)	1 Full-Sized Card Slot

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, MyKad, CAC, J-LIS, SIPRNET Card
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.100,000
PPS (Protocol and Parameters Selection)	Supported
Short Circuit Protection	Supported
Protocol	USB CCID
Connector Type(s)	Standard Type-A/Type-C
Speed	USB 2.0 Full Speed (12Mbps)
Supply Voltage	5 V
PC-Linked Mode	PC/SC
Firmware Upgrade	Supported
Dimensions	Type-A: 48.9mm (L) × 17.8mm (W) × 8.0mm (H) Type-C: 44.7mm (L) × 17.8mm (W) × 8.0mm (H)
Weight	Type-A: 7.63 g ± 0.76 g Type-C: 5.20 g ± 0.52 g
Available Colour(s)	White
LED	Green
Temperature	0 - 65°C
Humidity	95% (Non-Condensing)
MTBF	600,000 Hours
Certifications	UL 62368, CE, UKCA, FCC,RoHS, REACH, VCCI, Microsoft® WHQL
Compliances	USB CCID, PC/SC
Supported OS	Windows®, Linux®, macOS, Android™
Model/Part Number	
Standard(Loop String Not 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)



Application

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

Picture

