

Smart Card Reader ACR39T-A1

General

ACR39T-A1 brings new and modern technology to the world of smart card readers. This SIM-sized smart card reader is small but packs in a lot of features. Being a compact and powerful smart card reader, the ACR39T-A1 brings together sophisticated technology and modern design to meet rigorous requirements of various smart card-based applications.

ACR39T-A1 supports ISO 7816 smart cards, various memory cards, and microprocessor cards with T=0 and T=1 protocol. It is fully compliant with PC/SC and CCID specifications, and supports various operating systems such as Windows®, Linux, and Mac OS®. Additionally, ACR39T-A1 may also be used on mobile devices running on Android™ platform versions 3.1 and above.

Weighing nothing more than your standard USB stick, ACR39T-A1 is a device that you can bring anywhere to keep smart card technology right at your fingertips.

Features

- Supports ISO 7816 Class A, B and C (5 V, 3 V, 1.8 V) cards
- Supports microprocessor cards with T=0 or T=1 protocol
- Supports memory cards such as:
 - Cards following the I2C bus protocol (free memory cards) with maximum 128 bytes page with capability, including:
 - Atmel: AT24C01/02/04/08/16/32/64/128/256/512/1024
 - SGS-Thomson: ST14C02C, ST14C04C
 - Gem plus: GFM1K, GFM2K, GFM4K, GFM8K
 - Cards with intelligent 1k bytes EEPROM with write-protect function, including:
 - Infineon: SLE4418, SLE4428, SLE5518 and SLE5528
 - Cards with intelligent 256 bytes EEPROM with write-protect function, including:
 - 1 .Infineon: SLE4432, SLE4442, SLE5532 and SLE5542
- Supports PPS (Protocol and Parameters Selection)
- Features Short Circuit Protection
- Application Programming Interface:
 - Supports PC/SC
 - Supports CT-API (through wrapper on top of PC/SC)



Specification

Dimensions	49.5 mm (L) x 21.5 mm (W) x 9.0 mm (H)
Weight	8.5g
Color	Black
Protocol	USB CCID
Connector Type	Standard Type A
Power Source	From USB port
Speed	USB Full Speed (12 Mbps)
Supply Voltage	5 V
Number of Slot	1 SIM-sized Card Slot (optional with MicroSIM-sized)
Standard	ISO 7816 Parts 1-3, Class A, B, C (5 V, 3 V, 1.8 V)
Protocol	T=0; T=1; Memory Card Support
Supply Current	Max. 50mA
Smart Card Read/Write	9.6 Kbps – 600 Kbps
Short Circuit Protection	(+5) V/GND on all pins
Clock Frequency	4.8 MHz
Card Connector Type	Contact
Card Insertion Cycles	Min. 100,000
LED	Green
PC-linked Mode	PC/SC CT-API (through wrapper on top of PC/SC)
Temperature	0 °C – 60 °C
Humidity	Max. 90% (non-condensing)
MTBF	500,000 hrs
Certifications/Compliance	EN 60950/IEC 60950, ISO 7816, USB Full Speed, EMV™ Level 1 (Contact), PC/SC, CCID, CE, FCC, WEEE, RoHS 2, REACH TAA (USA), J-LIS (Japan), VCCI (Japan), PBOC (China), Microsoft® WHQL
Device Driver Operating System Support	Windows® XP, Windows Vista®, Windows® 7, Windows® 8, Windows® 8.1, Windows® 10 Windows® Server 2003, Windows® Server 2008, Windows® Server 2008 R2, Windows® Server 2012, Windows® Server 2012 R2, Windows® Server 2016 Linux®, Mac OS®, Solaris, Android™ 3.1 and later



Application

- e-Government
- Banking & Payment
- e-Healthcare
- Network Security
- Access Control
- Public Key Infrastructure
- e-Purse & Loyalty

Picture

