

ACR38U

ID Card Smart Card Reader



Along with the rapid growth of technology comes the increasing prevalence of electronic data theft. This emphasizes the need to secure electronic data, thus necessitating the integration of smart card technology into current IT infrastructures. Following this trend, the ACR38U Smart Card Reader Series combines sophisticated technology and modern design to meet stringent requirements in smart card-based applications, such as payment systems and electronic identification, where a high level of security has increasingly been deemed essential.

Now compliant with the CCID specification, the ACR38U Smart Card Reader offers a plug-and-play solution that eliminates the need for driver installation and driver-system compatibility assessment. Its USB interface facilitates communication between a computer and a smart card very easily, allowing for a seamless implementation of smart-card based applications in a PC environment.

The ACR38U is compliant with ISO-7816 and EMV Level 1 specifications. It supports ISO-7816 Class A, B and C (5V, 3V and 1.8V) cards, including all microprocessor cards with T=0, T=1, protocols, as well as most of the popular memory cards in the market.

Best For...

- Home Banking and Home Shopping
- E-commerce
- Balance inquiry for electronic purses
- Network access control
- Software Licensing
- Digital signature
- Loyalty Program
- Stored value
- Identification
- Ticketing
- Parking and toll collection
- Online gaming
- Automatic Fare Collection
- Physical Access Control

Features

- Supports ISO-7816 Class A, B and C (5V, 3V, 1.8V) cards
- Performs read and write operations on all microprocessor cards with T=0, T=1 protocols
- Supports most of the popular memory card types in the market:
- Cards following the I2C bus protocol (free memory cards) such as:
Atmel: AT24C01 / 02 / 04 / 08 / 16 / 32 / 64 / 128 / 256 / 512 / 1024
- SGS-Thomson: ST14C02C, ST14C04C
- Gemplus: GFM1K, GFM2K, GFM4K, GFM8K
- Cards with intelligent 256 bytes EEPROM and write protect function: SLE4432, SLE4442, SLE5532, SLE5542
- Cards with intelligent 1K bytes EEPROM and write-protect function: SLE4418, SLE4428, SLE5518, SLE5528
- Cards with '104' type of EEPROM (non-reloadable token counter cards): SLE4406, SLE4436, SLE5536, SLE6636
- Cards with secure memory IC with password and authentication: AT88SC153, AT88SC1608
- Cards with Intelligent 416-Bit EEPROM with internal PIN check: SLE4404
- Cards with Security Logic with Application Zone: AT88SC101, AT88SC102, AT88SC1003
- Supports PPS (Protocol and Parameters Selection)
- Short Circuit Protection
- RoHS Compliant
- Certificate of conformance: EN 60950/IEC 60950, ISO-7816, PC/SC, CE, FCC, VCCI, CCID, Microsoft WHQL, EMV 2000 Level 1



Specification

Dimensions	Spaceship Casing: 73.0mm (L) x 96.5mm (W) x 19.0mm (H) Bridge Casing : 80.0mm (L) x 71.5mm (W) x 80.0mm (H)
Interface	USB 2.0 full speed
Supply Voltage	Regulated 5V DC
Supply Current	max. 50mA
Operating Temperature	0-50°C
Operating Frequency	4 MHz
MBTF	500,000 hours
Smart Card Interface Support	<ul style="list-style-type: none"> • ISO-7816 Class A, B and C (5V, 3V, 1.8V)
Compliance/Certifications	<ul style="list-style-type: none"> • EN 60950/IEC 60950, EMV 2000 Level 1, PC/SC, CCID, CE, FCC, VCCI, RoHS Compliant, USB Full Speed • Microsoft WHQL: 2000, 2003, XP, Vista, 2008, 2008 R2, 7
Operating System Support	<ul style="list-style-type: none"> • Windows 98, ME, 2000, 2003, XP, Vista, 2008, 7 • Windows 2003 x64, XP x64, Vista x64, 2008 x64, 2008 R2 x64, 7 x64 • Mac • Linux

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