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ACR38

The ACR38 is a compact and cost-effective reader which supports all microcontroller cards with T=0 or T=1 protocols as well as the popular memory cards in the market today. It supports smart cards that conform to ISO 7816-1/2/3 standard. The ACR38 is also EMV Level 1 and Microsoft PC/SC certified, and supports all major PC platforms.

Being a single chip solution, with EMV level 1 certified, this reader is one of the most cost effective solutions for banking, e-commerce, information security, computer access control, electronic identification, and other smart card applications. The ACR38 smart card reader/writer can be connected to the computer through a serial asynchronous interface (RS-232) or USB interface. The two types of readers, Serial (ACR38S) and USB (ACR38U) have an optional built-in Security Access Module (SAM) slot that supports various high security applications.

The **ACR38** is also available in two types of casing, the original Piano casing and the new CyberFrog casing.

The **ACR38** is also an ideal solution for integrating smart card access into applications. The module retains the full functionalities of the reader/writer, and can be easily integrated in payphones, parking meters, vending machines, laundries, gaming machines, ATM's, sophisticated access control systems, etc.



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Standard features for the ACR38 reader series:

- Support smart cards that conform to ISO 7816-1/2/3
- PC/SC Compliant
- Certified by CE, FCC, EMV Level 1 and Microsoft WHQL
- Read and write all microcontroller cards with T=0, T=1 protocols
- Read and write most of the popular memory card types in the market:
 - '104' type EEPROM non-reloadable token counter cards, including: GPM103, ST1305, SLE4406, SLE4436 (on request), SLE5536 (on request)
 - Cards following the I2C bus protocol (free memory cards) such as:
 - Atmel:** AT24C01, AT24C02, AT24C04, AT24C08, AT24C16
 - SGS-Thomson:** ST14C02C, ST14C04C
 - Gemplus:** GFM1K, GFM2K, GFM4K, GFM8K
 - SLE4432/4442 intelligent 256 bytes EEPROM with write protect function: SLE4432, SLE4442
 - SLE4418/4428 intelligent 1K bytes EEPROM with write-protect function: SLE4418, SLE4428
- Contains Interface library for efficient PC application software development
 - 32-bit DLL files for Windows 98, ME, NT and 2000, XP.
 - PC/SC compliant IFD handler
- Compatible with most PC platforms: Windows 98, ME, NT, 2000 and XP, Linux

Technical Specifications:

Interface	RS-232 (Serial) or USB
Supply Voltage	Regulated 5V DC
Supply Current	<100mA (without smart card)
Operating Temperature	0-50°C
CLK Frequency	3.68 / 4 MHz
Standards / Certifications	ISO 7816-1/2/3, PC/SC, CE, FCC, NETS
Operating System Support	Windows 98, ME, NT, 2000 and XP, Linux