Advanced Card Systems Ltd.
Card & Reader Technologies

SMART FLOPPY SMART CARD READER

ACR39F-A2

ADAPTABLE & VERSATILE

ACS' ACR39F-A2 Smart Floppy is the ideal solution for easy integration of smart card readers into desktop environments. Adopting a USB interface, it is powered by the computer's internal power supply, and can be configured according to customers' preferences.

The ACR39F-A2 supports ISO 7816 Class A, B, and C smart cards, as well as different memory cards and microprocessor cards in the market with T=0 and T=1 protocol. It features a USB Full Speed interface and a smart card read/write speed of 600 Kbps, and is highly durable as it is able to last for at least 200,000 card insertion cycles.

Aside from being PC/SC and CCID compliant, the device's drivers are also compatible with operating systems such as Windows®, Linux®, macOS, Solaris™ and Android™.

With its widely applicable features, the ACR39F-A2 is sure to be the ideal solution for Security, e-Payment and e-Government applications.

KEY FEATURES

- ☑ **Supports Various Types of Contact Cards**
  - o ISO 7816 Class A, B and C (5 V, 3 V and 1.8 V)
  - o Microprocessor Card (T=0, T=1)
  - o Memory Card
  - o CAC, SIPRNET, and J-LIS Smart Cards
- ☑ **Reliable**
  - o Compliant with International Regulations
  - o Mean Time Between Failures (MTBF) up to 500k Hours
  - o Card Insertion Cycles: 200k Times
  - o Short Circuit Protection
  - o PPS (Protocol and Parameters Selection)
- ☑ **Compatible**
  - o Supports All Major Operating Systems
    - ▪ Windows®, Linux®, macOS, and Android™

COMMON APPLICATIONS

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

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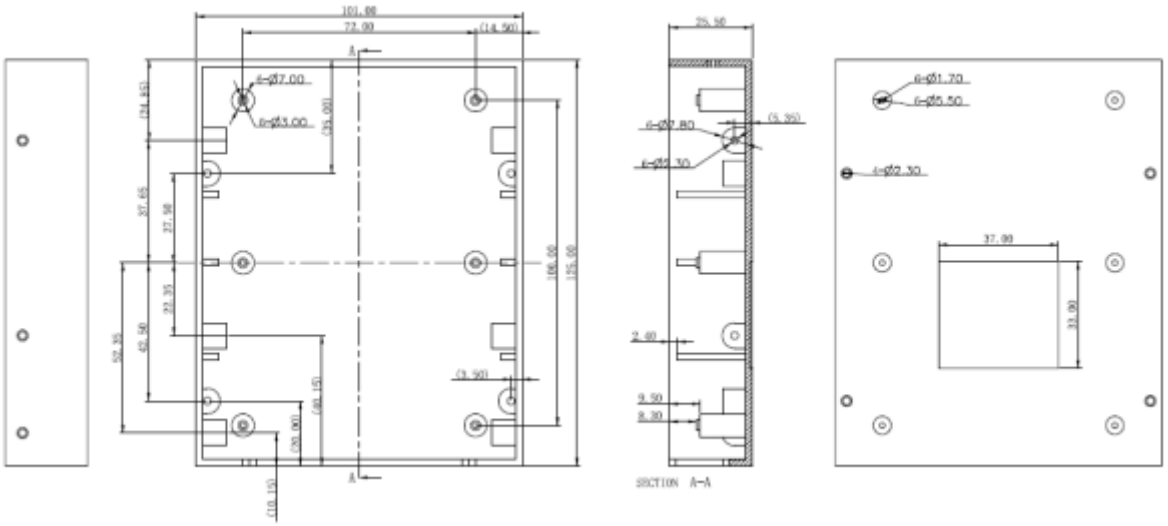
TECHNICAL SPECIFICATIONS

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, CAC, J-LIS, SIPRNET Smart Cards
Supply Current	Max. 50 mA
Read/Write Speed	9.6 – 600 Kbps
Clock Frequency	4.80 MHz; Operates Up to 16MHz
Card Connector	Sliding
Card Insertion Cycles	Min. 200,000
PPS (Protocol and Parameters Selection)	Supported
Short Circuit Protection	Supported
Host Interface	
Protocol	USB CCID
Connector Type	5 Pins Header Connector
USB Interface	USB 2.0 Full Speed (12Mbps)
	Compatible with USB 3.0
Supply Voltage	5 V
Application Programming Interface	
PC-Linked Mode	PC/SC

Physical Characteristics	
Dimensions	125.0 mm (L) × 101.0 mm (W) × 25.5mm (H)
Weight	82.5 g ± 1.0 g
Available Colour(s)	Black
Built-In Peripheral	
LED	Green
Operating Conditions	
Temperature	0 - 60°C
Humidity	Max. 90% (Non-Condensing)
MTBF	500,000 Hours
Power Source	USB Port
Certifications/ Compliances	
Standards	USB CCID, PC/SC, EMV™ Level 1 (Contact), Microsoft® WHQL
Regulatory/ Environmental	IEC/EN 60950, CE, FCC, WEEE, RoHS, REACH
OS Support	
Supported OS	Windows®, Linux®, macOS Android™
Model/Part Number	
Default	ACR39F-A2

MECHANICAL SPECIFICATIONS

Note: All dimensions in mm



About ACS

Advanced Card Systems Ltd. (ACS), founded in 1995, is Asia Pacific's top supplier and one of the world's top 3 suppliers of PC-linked smart card readers. ACS is the winner of the Product Quality Leadership Award for Smart Card Readers from Frost & Sullivan. ACS was listed in Forbes Asia's "Best Under a Billion" list for several years, an inter-industry list comprised of 200 top-performing publicly listed companies in the Asia-Pacific, with sales between US$5 million and US$1 billion. ACS develops a wide range of high-quality smart card reading/writing devices, smart cards and related products and distributes them to over 100 countries worldwide.

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