Advanced Card Systems Ltd.
Card & Reader Technologies

PC-LINKED SMART CARD READER

ACR39U-H1

CONVENIENT & RELIABLE

The ACR39U-H1 is a smart card reader with a unique design. Built with the "Bridge Desktop" casing, it allows for upright insertion of smart cards, making it convenient for user applications in network security and electronic payment system settings.

The reader supports ISO 7816 Class A, B, and C smart cards (5 V, 3 V, and 1.8 V), microprocessor cards with the T=0 and T=1 protocol, as well an array of memory cards including the Secure Internet Protocol Router Network (SIPRNET) Card, the Department of Defense Common Access Card (CAC), and the Malaysian Identity Card (MyKad). Highly durable, the ACR39U-H1 can withstand up to 200,000 card insertion cycles.

Compliant with both PC/SC and CCID, the ACR39U-H1 is designed to be integrated into any computer-based environment as it is compatible with various operating systems such as Windows®, Linux® and macOS, and is able to run on mobile devices running on Android™ Versions 3.1 and later. EMV™ Level 1 (Contact) and People's Bank of China (PBOC) certified, the ACR39U-H1 is without a doubt, the ideal smart card reader for your e-Banking and e-Payment application needs.

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 MyKad Card
  - o CAC, SIPRNET Smart Card
- ☑ **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
- ☑ **Compatible**
  - o Windows®, Linux®, macOS, Solaris™ and Android™

COMMON APPLICATIONS

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

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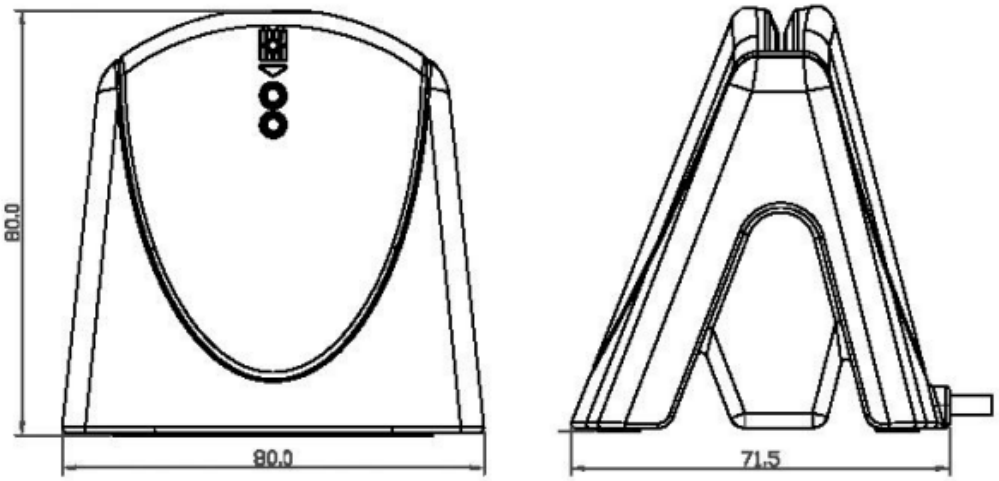
TECHNICAL SPECIFICATIONS

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, MyKad Card, CAC, 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	6pin Contact
Card Insertion Cycles	Min. 200,000 Min. 300,000 (For Landing Connector)
PPS (Protocol and Parameters Selection)	Supported
Short Circuit Protection	Supported
Host Interface	
Protocol	USB CCID
Connector Type	USB Type-A
USB Interface	USB 2.0 Full Speed (12Mbps) Compatible with USB 3.0
Supply Voltage	5 V
Cable Length	1.5 m (Non-Detachable)
Application Programming Interface	
PC-Linked Mode	PC/SC

Physical Characteristics	
Dimensions	71.5mm (L) × 80.0mm (W) × 80.0mm (H)
Weight	174 g ± 5 g (For Cable)
Available Colour(s)	White
Peripherals	
LED(s)	2 Single-Color (Green and Red)
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), PBOC Level 1 (Contact), Microsoft® WHQL, TAA
Regulatory/ Environmental	CE, IEC/EN 62368, FCC, VCCI, KC, RoHS, REACH, WEEE, UKCA
OS Support	
Supported OS	Windows® , Linux®, macOS, Solaris™, Android™
Plug and Play	Supported
Model/Part Number	
Default	ACR39U-H1

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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