



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 as 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

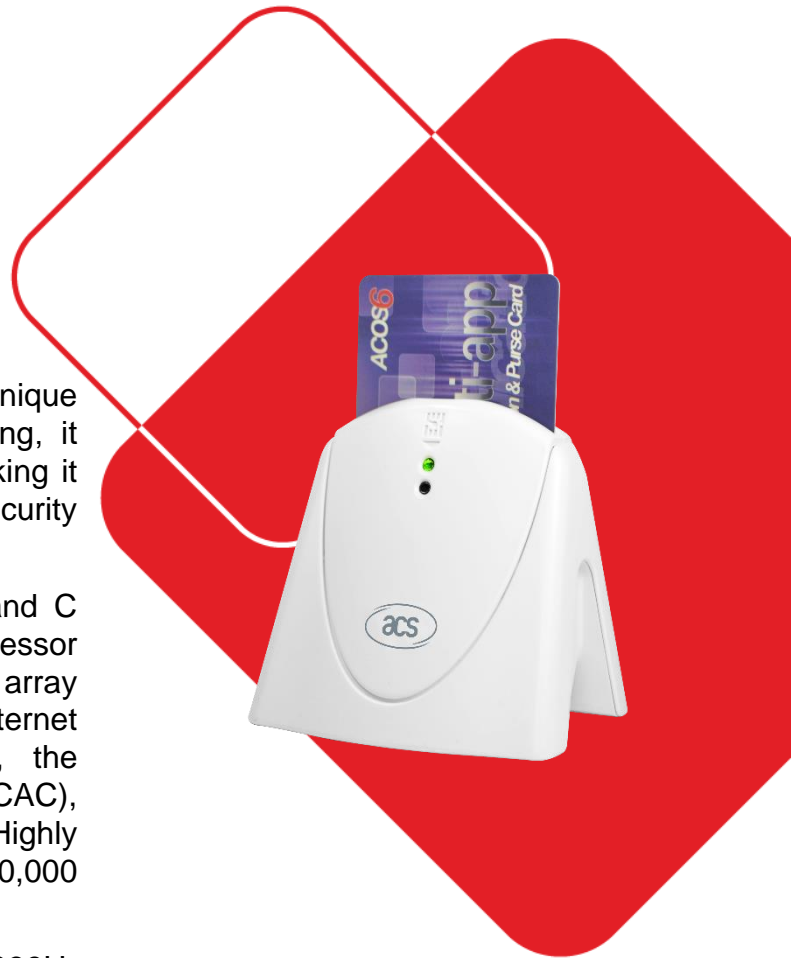
- ISO 7816 Class A, B and C (5 V, 3 V and 1.8 V)
- Microprocessor Card (T=0, T=1)
- Memory Card
- MyKad Card
- CAC, SIPRNET Card

Reliable

- Certified for International Regulations
 - EN 62368/IEC 62368, CE, FCC, RoHS, REACH, EMV™ Level 1 (Contact), KCC, PBOC, TAA(USA), UKCA, VCCI, WEEE, ISO 7816, USB 2.0 Full Speed, Microsoft® WHQL
- Mean Time Between Failures (MTBF) up to 500k Hours
- Card Insertion Cycles: 200k Times
- Short Circuit Protection

Compatible

- Windows®, Linux®, macOS, Solaris™ and Android™ (Version 3.1 and later)



COMMON APPLICATIONS

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

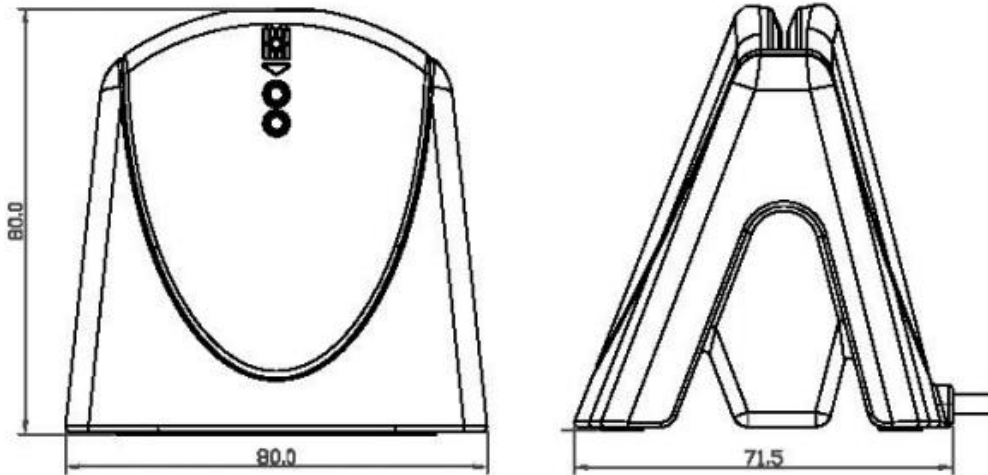


TECHNICAL SPECIFICATIONS

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 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	Standard Type-A
Power Source	From USB Port
USB Interface	USB 2.0 Full Speed (12Mbps) Compatible with USB 3.0
Supply Voltage	5 V
Cable Length	1.5 m (Fixed)
Application Programming Interface	
PC-Linked Mode	PC/SC
Model/Part Number	
Default	ACR39U-H1

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	2 Single-Color (Green and Red)
Operating Conditions	
Temperature	0 - 60°C
Humidity	Max. 90% (Non-Condensing)
MTBF	500,000 Hours
Certifications & Compliances	
Certifications	EN 62368/IEC 62368, CE, FCC, RoHS, REACH, EMV™ Level 1 (Contact), KCC, PBOC, TAA(USA), UKCA, VCCI, WEEE, ISO 7816, USB 2.0 Full Speed, Microsoft® WHQL
Compliances	USB CCID, PC/SC
Driver & Support	
Driver Supported OS	Windows® 7, Windows® 8, Windows® 8.1, Windows® 10, Windows® 11, Windows® Server 2003, Windows® Server 2008, Windows® Server 2008 R2, Windows® Server 2012, Windows® Server 2012 R2, Windows® Server 2016 Linux®, macOS, Solaris™, Android™ 3.1 and later
Plug and Play	Supported

MECHANICAL SPECIFICATIONS



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. In 2010, 2014 and 2015, ACS was listed in Forbes Asia's "Best Under a Billion" list, 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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Tel: +852-2796-7873

Fax: +852-2796-1286

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www.acs.com.hk

info@acs.com.hk