Advanced Card Systems Ltd.
Card & Reader Technologies

PC-LINKED SMART CARD READER

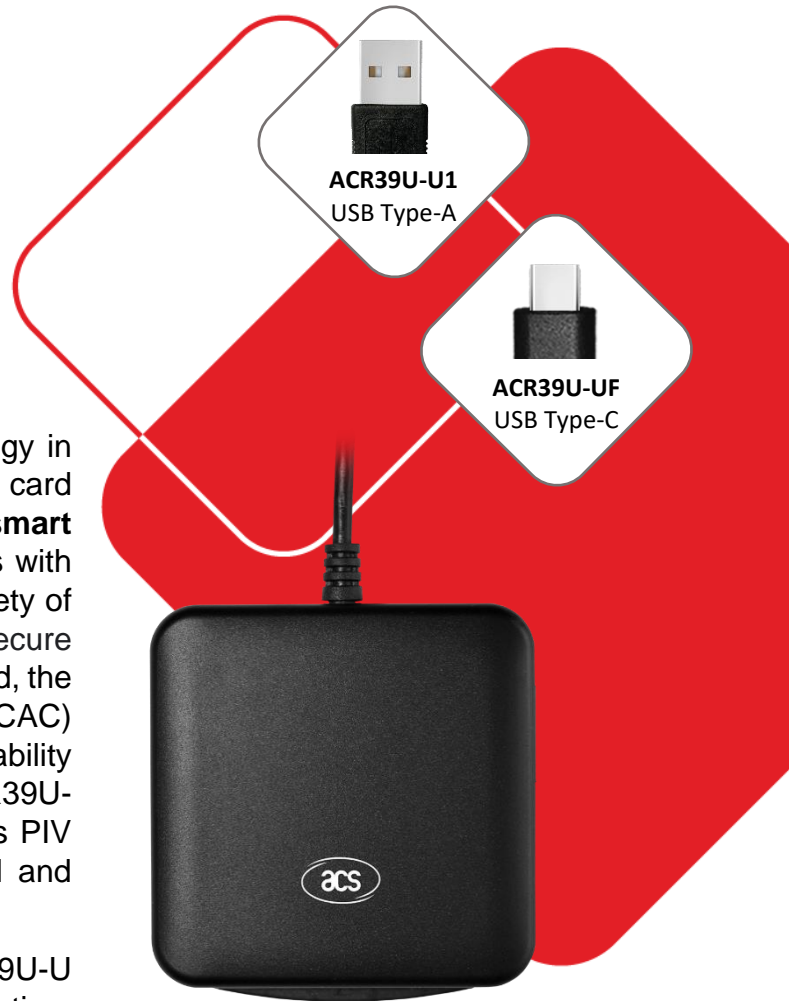# ACR39U

COMPACT & STYLISH

ACR39U-U1
USB Type-A

ACR39U-UF
USB Type-C

The ACR39U-U combines present-day technology in the form of the latest compact and stylish smart card reader. It supports **ISO 7816 Class A, B and C smart cards** (5 V, 3 V, 1.8 V), **microprocessor cards** with the T=0 and T=1 protocol as well as a wide variety of memory cards in the market, including the Secure Internet Protocol Router Network (SIPRNET) Card, the Department of Defense Common Access Card (CAC) and the Malaysian Identity Card (MyKad). The ability to support multiple memory cards makes the ACR39U-U ideal for a diverse range of solutions, such as PIV application, physical and logical access control and digital signatures.

Compliant with both PC/SC and CCID, the ACR39U-U can be operated using the plug and play function, ensuring convenience and mobility for its users. It is also designed to be integrated into any computer-based environment as the reader is compatible with various operating systems such as Windows®, Linux®, macOS, Solaris™ and Android™ (Versions 3.1 and later). EMV™ Level 1 (Contact) and People's Bank of China (PBOC) certified, the ACR39U-U is without a doubt, the ideal smart card reader for your e-Banking and e-Payment application needs.

COMMON APPLICATIONS

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

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, J-LIS, SIPRNET Smart Cards
☑ **Reliable**
  o Certified for International Regulations
    ▪ EN 62368/IEC 623868, UL 62368, CE, UKCA, FCC, RoHS, REACH, VCCI, USB 2.0 Full Speed, Microsoft® WHQL
  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™ (Version 3.1 and later)

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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, J-LIS, SIPRNET Card
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	Contact Landing (Optional)
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	
USB Type-A	ACR39U-U1
USB Type-C	ACR39U-UF

Physical Characteristics	
Dimensions	72.2mm (L) × 69.0mm (W) × 14.5mm (H)
Weight	**Type-A:** 65 g ± 6.5 g **Type-C:** 56 g ± 5.6 g
Available Colour(s)	Black (Matte)

Peripherals	
LED	Green

Operating Conditions	
Temperature	0 - 60°C
Humidity	Max. 90% (Non-Condensing)
MTBF	500,000 Hours

Certifications & Compliances	
Certifications	UL 62368, CE, UKCA, FCC, RoHS, REACH, VCCI, Microsoft® WHQL, EN 62368/IEC62368, EMV™ Level 1 (Contact), BIS, J-LIS, KCC, PBOC, TAA(USA), UL, ISO 7816, USB 2.0 Full Speed
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
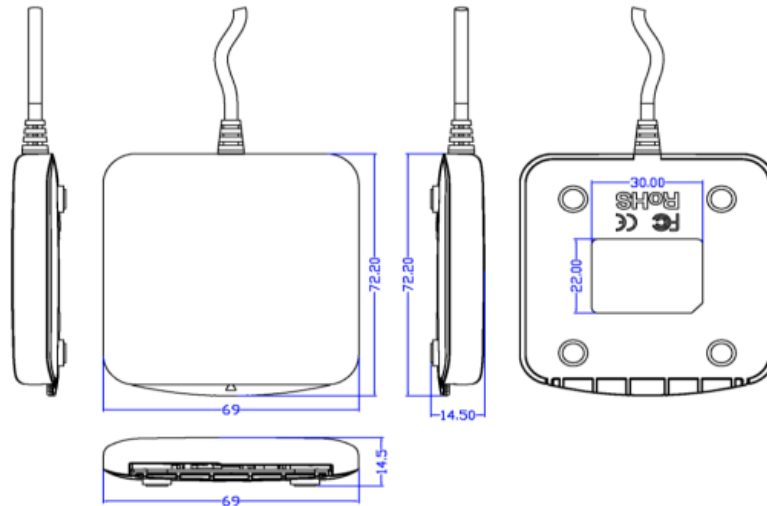
About ACS

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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