Advanced Card Systems Ltd.
Card & Reader Technologies

CONTACT SMART CARD READER

ACR40U

VERSATILE & CONVENIENT

Introducing the ACR40U, ACS's latest compact high-speed USB contact smart card reader. It provides seamless support for **ISO 7816 Class A, B, and C smart cards**, **microprocessor cards using T=0 and T=1 protocols**, and a wide range of memory cards available in the market.

The ACR40U features two LED lights, indicating card and reader status. Exciting new additions include **firmware upgradability and on-device user data storage**, catering to various application scenarios.

The ACR40U ensures compliance with CCID, PC/SC, and Microsoft® WHQL standards. It offers compatibility with multiple operating systems such as **Windows®, Linux®, macOS, iOS, iPadOS, and Android™**.

Furthermore, both **USB Type-A and Type-C** interface options are available, allowing for seamless connectivity and expanding the reader's versatility and convenience.

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, CAC, J-LIS, SIPRNET Smart Cards
- ☑ **Supports Firmware Upgrade**
- ☑ **Supports User Data Storage**
- ☑ **Reliable**
  - o Compliant with International Regulations
- ☑ **Compatible**
  - o Supports all major operating systems
    - ▪ Windows®, Linux®, macOS, iOS, iPadOS, Android™, Solaris™

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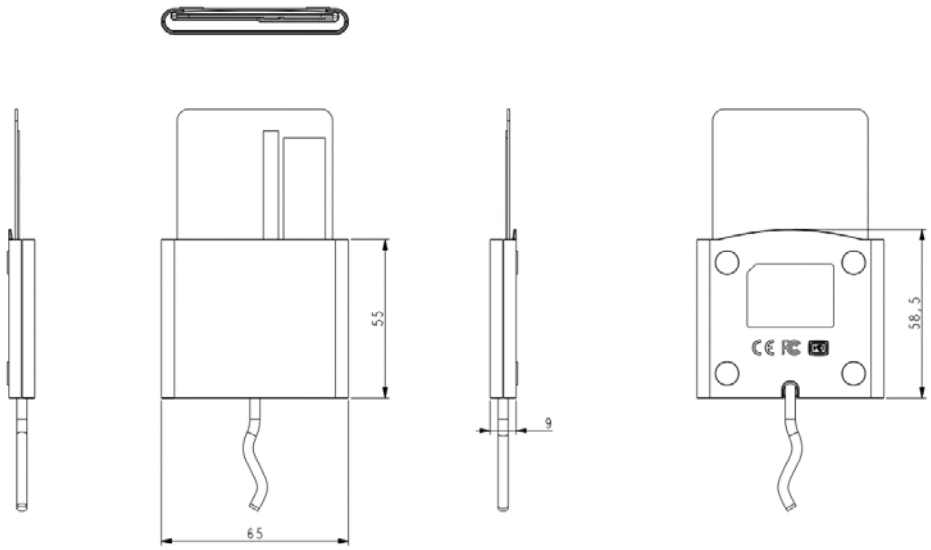
TECHNICAL SPECIFICATIONS

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 Smart Card
Supply Current	Max. 50 mA
Read/Write Speed	9.6 – 600 Kbps
Clock Frequency	4.80 MHz; Operates Up to 16MHz
Card Connector	Contact
Card Insertion Cycles	Min. 200,000
PPS (Protocol and Parameters Selection)	Supported
Short Circuit Protection	Supported
Host Interface	
Protocol	USB CCID
Connector Type(s)	**ACR40U-A1:** USB Type-A
	ACR40U-AF: USB Type-C
USB Interface	USB 2.0 Full Speed (12Mbps)
	Compatible with USB 3.0
Supply Voltage	5 V
Cable Length	1m (Non-Detachable)
Application Programming Interface	
PC-Linked Mode	PC/SC
Other Features	
Firmware Upgrade	Supported
User Data Storage	Supported

Physical Characteristics	
Dimensions	55.0mm (L) × 65.0mm (W) × 9.0mm (H)
Weight	40.0 g ± 5.0 g
Available Colour(s)	White
Peripherals	
LED(s)	Blue & Green
Operating Conditions	
Temperature	0 - 65°C
Humidity	Max. 95% (Non-Condensing)
MTBF	600,000 Hours
Power Supply	USB Port
Certifications/ Compliances	
Standards	USB CCID, PC/SC, EMV™ Level 1 (Contact), PBOC Level 1 (Contact), TAA, J-LIS, Microsoft® WHQL
Regulatory/ Environmental	CE, IEC/EN 62368, UKCA, FCC, VCCI, RoHS, REACH, WEEE, UL 62368, KC
OS Support	
Supported OS	Windows®, Linux®, macOS, iOS, iPadOS, Android™, Solaris™
Model/Part Number	
Default [USB Type-A]	ACR40U-A1
Default [USB Type-C]	ACR40U-AF

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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