



PC-LINKED SMART CARD READER
MOBILE CARD READER

ACR39U-N

PORTABLE & ADAPTABLE

The ACR39U-N PocketMate II in Type-A, Type-C and Micro-USB Connectors incorporates a safe-keeping Swivel-USB-Go-design. The reader is capable of supporting demanding smart card applications, providing valuable and reliable functionalities to meet your security needs.

The device supports ISO 7816 Class A, B and C smart cards (5 V, 3 V and 1.8 V), microprocessor cards with T=0 and T=1 protocol. It also supports a wide variety of memory cards in the market, including the Department of Defense Common Access Card (CAC), the SIPRNET Card, the J-LIS Card and the Malaysian Identity Card (MyKad). This makes the reader ideal for a broad range of solutions, namely Physical and Logical Access Control, Digital Signature and Online Banking Applications.

ACR39U-N PocketMate II's nifty design allows the device to be used in various settings at all times. The reader is able to provide a wide range of support as it is compliant with both CCID and PC/SC as well as Microsoft® WHQL. It is also compatible with various operating systems such as Windows®, Linux®, Solaris™ and macOS, and is able to run on mobile devices operating on Android™ Versions 3.1 and later.

KEY FEATURES

✔ Supports Various Types of Contact Cards

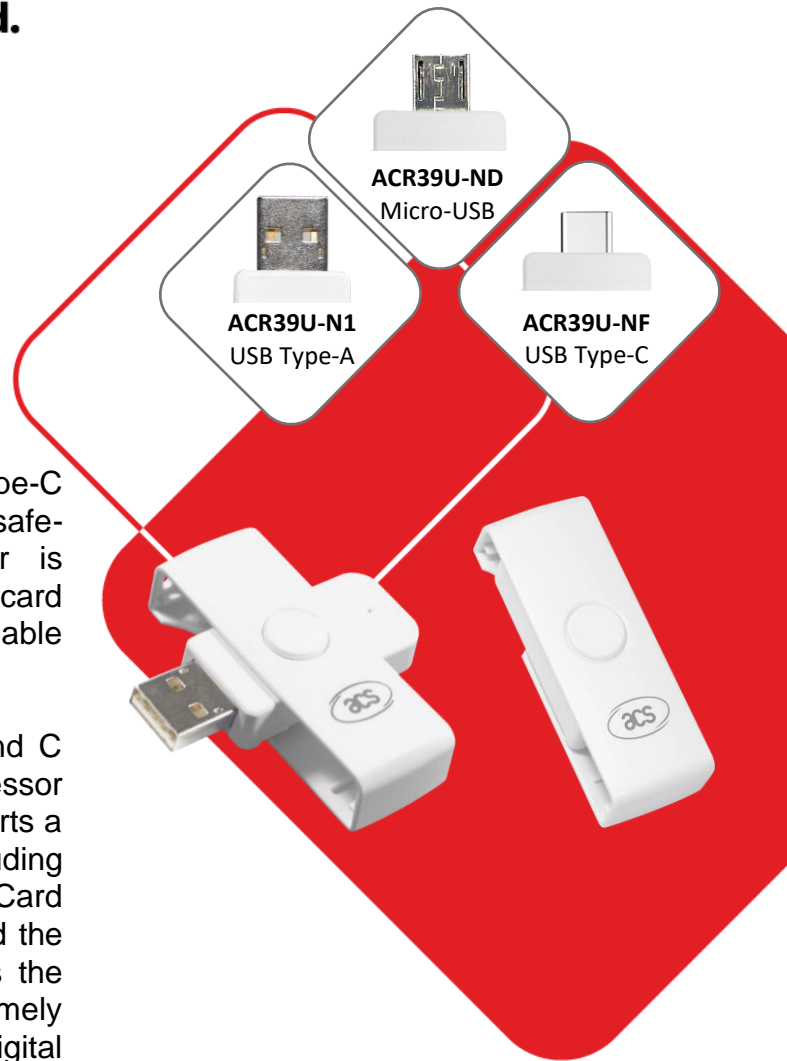
- ISO 7816 Class A, B and C (5 V, 3 V and 1.8 V)
- Microprocessor Card (T=0, T=1)
- Memory Card
- CAC, SIPRNET, and J-LIS Smart Cards

✔ Reliable

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

✔ Compatible

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



COMMON APPLICATIONS

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

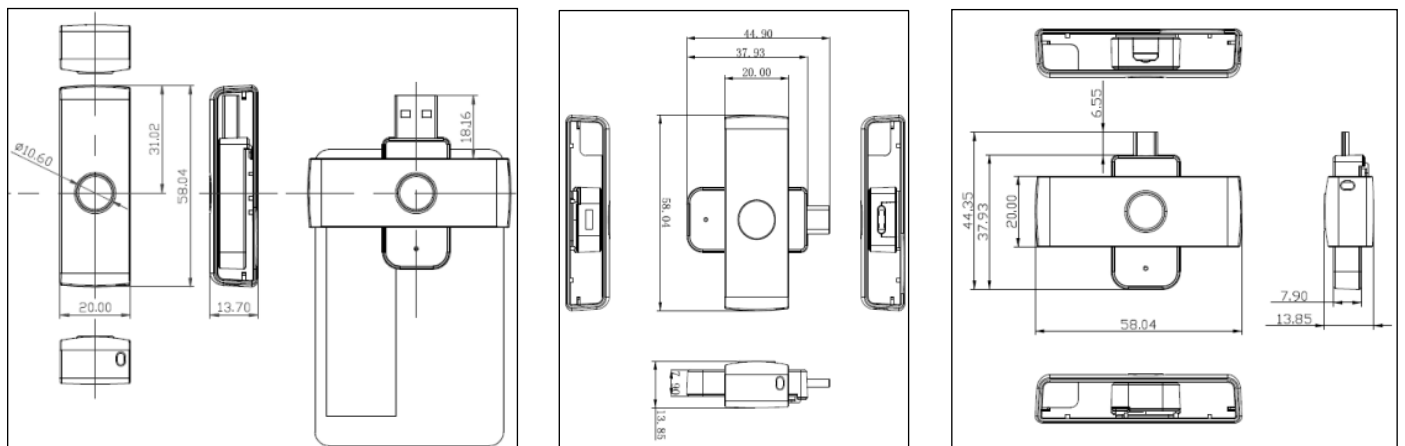


TECHNICAL SPECIFICATIONS

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, J-LIS 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
PPS (Protocol and Parameters Selection)	Supported
Short Circuit Protection	Supported
Host Interface	
Protocol	USB CCID
Connector Type	N1: USB Type-A
	NF: USB Type-C
	ND: Micro-USB
Power Source	From USB Port
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
Model/Part Number	
USB Type-A	ACR39U-N1
Micro-USB	ACR39U-ND
USB Type-C	ACR39U-NF

Physical Characteristics	
Dimensions	Type-A: 58.0mm (L) × 20.0mm (W) × 13.7mm (H)
	Type-C/Micro-USB: 58.0mm (L) × 20.0mm (W) × 13.9mm (H)
Weight	Type-A: 12 g ± 1.2 g
	Type-C: 10 g ± 1.0 g
	Micro-USB: 9.7 g ± 0.9 g
Available Colour(s)	White
Peripherals	
LED	Green
Operating Conditions	
Temperature	0 - 60°C
Humidity	Max. 90% (Non-Condensing)
MTBF	500,000 Hours
Certifications & Compliances	
Certifications	EN 62368/IEC 62368, CE, UKCA, FCC, RoHS, REACH, VCCI, Microsoft® WHQL, 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

MECHANICAL SPECIFICATIONS



ACR39U-N1
[USB-A]

ACR39U-NF
[USB-C]

ACR39U-ND
[Micro-USB]

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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