CONTACTLESS READERS

ACR1552U

USB NFC Reader IV

ACR1552U USB NFC Reader IV is the fourth generation of ACS's contactless reader developed based on 13.56MHz. It can access contactless card and devices following the ISO 14443, ISO 15693 and ISO 18092 standards.

ACR1552 is a CCID & PC/SC compliant reader, this plug-and-play NFC reader makes use of high-speed communication for contactless cards at a maximum of 848 kbps, which makes it suitable for highly demanding applications. It also support three modes of NFC: card reader/writer, card emulation and peer-to-peer communication.

With additional features such as Keyboard Emulation, ACR1552U USB NFC Reader IV is a highly cost-effective, powerful all-in-one device that offers convenience and flexibility to many smart card applications.

KEY FEATURES

☑ Support various type of contactless card type
  - ISO 14443 Type A & B Parts 1-4
  - ISO 15693
  - ISO 18092 NFC
  - MIFARE® (T=CL), FeliCa,
  - SRI/SRIX, CTS, Innovatron, Picopass, Topaz Card

☑ Support various NFC modes
  - NFC Reader/Writer, Peer-to-peer, Card Emulation
  - Keyboard Emulation

☑ Security
  - 1 x ISO 7816 Standard SAM slot for improved security

☑ Flexible
  - Read/write speed, LED & Buzzer can be programmable

☑ Support USB Firmware Upgrade

☑ Reliable
  - Certified for international regulations
  - Mean time between failures (MTBF) up to 500k Hours

☑ Compatibility
  - Support for all major operating systems
    - Windows®, Linux®, macOS, Android™

Common Applications

e-Government
e-Banking and e-Payment
e-Healthcare
Transportation
Network Security
Access Control
Loyalty Program
Smart Poster/URL Marketing
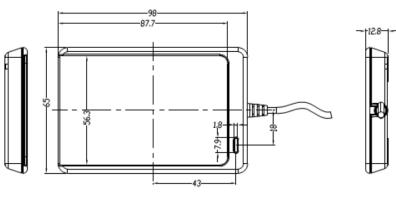P2P Communication

www.acs.com.hk

info@acs.com.hk

TECHNICAL SPECIFICATION

Contactless Smart Card Interface	
Supported Card Types	ISO 14443 Type A & B Parts 1-4, ISO 15693, ISO 18092 NFC, MIFARE®, FeliCa, SRI/SRIX, CTS, Innovatron, Picopass, Topaz Card
Operating Frequency	13.56 MHz
Reading Distance	Up to 70 mm (Depending on tag type)
Read/Write Speed	106/212/424/848 kbps (ISO14443) 26/53/106/212 kbps (ISO15693)
Anti-Collision	Yes
Supported NFC Mode	NFC Reader/Writer, Peer-to-Peer, Card Emulation, Keyboard Emulation

SAM Card Interface	
Standard	1 x ISO 7816 Class A (5V) Standard SIM size slot
Read/Write Speed	13.4 kbps – 1,250 kbps
Clock Frequency	5 MHz
Protocol	T=0, T=1

Host Interface	
Protocol	USB CCID
Connector Type	USB Type-A
Speed	USB 2.0 Full Speed (12 Mbps)
Supply Voltage	5VDC
Current Consumption	Max. 350mA
USB Firmware Upgrade	Supported

Physical Characteristics	
Dimension (L x W x H)	Main Body: 98 x 65 x 12.8 mm Antenna size: 50 x 40 mm
Weight (±5 g)	79 g (USB Type-A)
Available Colour	White
USB Cable Length	1 m (Non-detachable)

Peripherals	
Buzzer	1 x Programmable Buzzer (Mono-tone)
LED	1 x Programmable LED (Blue & Green)

Operating Condition	
Temperature	0 - 60°C
Humidity	90% (Non-condensing)
MTBF	500,000 Hours

Certifications & Compliances	
Certifications	IEC/EN 62368, CE, UKCA, FCC, J-LIS, VCCI, TELEC, KC, BIS, RoHS, REACH, WEEE, Microsoft® WHQL
Compliances	USB CCID, PC/SC

Libraries & Tools	
Libraries	CT-API
Tools	Software Development Kit

Drivers & Support	
Driver Supported OS	Windows®, Linux®, macOS, Android™
Warranty	1 Year

Model/Part Number	
USB Type-A	ACR1552U-M1
USB Type-C	ACR1552U-MF

MECHANICAL SPECIFICAITON

Unit: 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. 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.

Click here for Sales Enquiry
Tel: +852-2796-7873
Fax: +852-2796-1286

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