



CONTACTLESS READERS

ACR1552U

USB NFC Reader IV

ACR1552U USB NFC Reader IV is the fourth generation of USB NFC Reader developed based on 13.56 MHz contactless technology. It can access contactless cards and devices following the ISO 14443 Type A and B, ISO 15693, and ISO 18092 standards.

Compliant with both CCID and PC/SC standards, this plug-and-play NFC reader is equipped with a high-speed communication capability of up to 848 kbps. The reader has USB firmware upgradability and extended contactless APDU commands, making it versatile and cost-effective hardware for various industries, such as finance, healthcare, and government.

It also offers intelligent support for three modes of NFC features: reader/writer, card emulation, and keyboard emulation. The flexibility of NFC readers allows for various potential applications, such as e-payment, access control systems and transportation ticketing.

KEY FEATURES

- Support various contactless card type
 - ISO 14443 Type A & B Parts 1-4
 - ISO 15693
 - ISO 18092 NFC
 - MIFARE® (T=CL), FeliCa, NFC Tags
 - SRI/SRIX, CTS, Innovatron, Picopass, Topaz Card
- Performance
 - Read/Write ISO 14443A & B speed of up to 848 kbps
 - Read/Write ISO 15693 speed of up to 53 kbps
- Support various NFC features
 - Card Reader/Writer Mode
 - Card Emulation Mode
 - Keyboard Emulation Mode
- Security
 - 1 x ISO 7816 Standard SAM slot for improved security
- Support USB Firmware Upgrade
- Reliable
 - Certified for international regulations
 - Mean time between failures (MTBF) up to 500k Hours
 - Short Circuit Protection
- 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

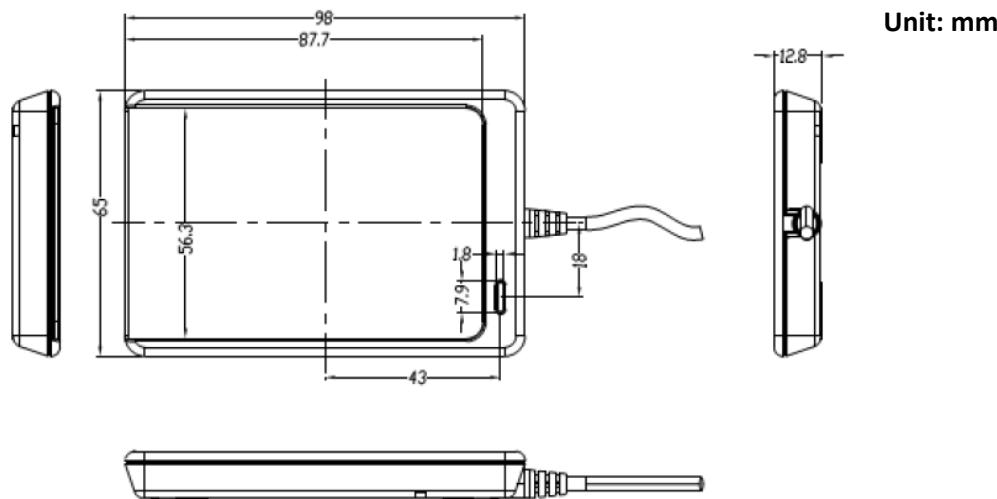




TECHNICAL SPECIFICATION

Contactless Smart Card Interface		Physical Characteristics	
Supported Standards/Card Types	ISO 21481, ISO 15693, ISO 18092 NFC, ISO 14443 Type A & B Parts 1-4, MIFARE®, FeliCa, SRI/SRIX, CTS, Innovatron, Picopass, Topaz Card	Dimension (L x W x H)	Main Body: 98.0 x 65.0 x 12.8 mm Antenna size: 50.0 x 40.0 mm
Operating Frequency	13.56 MHz	Weight (± 5 g)	79 g (USB Type-A)
Reading Distance	Up to 70 mm (Depending on tag type)	Available Colour	White
Read/Write Speed	106/212/424/848 kbps (ISO14443) 26 kbps (ISO15693)	USB Cable Length	1 m (Non-detachable)
Supported NFC Mode	Card Reader/Writer, Keyboard Emulation, Card Emulation	Peripherals	
SAM Card Interface		Buzzer	1 x Programmable Buzzer (Mono-tone)
Standard	1 x ISO 7816 Class A (5V) Standard SIM size slot	LED	1 x Programmable LED (Blue & Green)
Read/Write Speed	13.4 kbps – 1,250 kbps	Operating Condition	
Clock Frequency	5 MHz, up to 10MHz (Upon request)	Temperature	-20 - 70°C
Protocol	T=0, T=1	Humidity	90% (Non-condensing)
Host Interface		MTBF	500,000 Hours
Protocol	USB CCID	Certifications/ Compliances	
Connector Type	USB Type-A	Standards	USB CCID, PC/SC, Microsoft® WHQL, J-LIS
Speed	USB 2.0 Full Speed (12 Mbps) compatible with USB 3.0	Regulatory / Environmental	CE, UKCA, FCC, VCCI, RoHS, REACH, WEEE
Supply Voltage	5VDC	Libraries & Tools	
Current Consumption	Max. 300mA	Libraries	CT-API
USB Firmware Upgrade	Supported	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 SPECIFICATION



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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