

Advanced Card Systems Ltd.

Card & Reader Technologies

Mobile Card Reader

ACR1555U Secure Bluetooth® NFC Reader

The ACR1555U Secure Bluetooth® NFC Reader supports a variety of standards, including ISO 14443 Type A and B contactless cards, MIFARE®, FeliCa, ISO 18092 NFC, and ISO 15693 cards, making it suitable for applications in finance, healthcare, and government.

Equipped with Bluetooth 5.2 (Bluetooth Low Energy) for easy pairing with mobile devices and USB Full Speed for reliable PC connectivity, the ACR1555U ensures seamless connections whether you're in the office or on the go.

Designed for efficiency and security, it features smart card reading and writing, card emulation, Bluetooth HID keyboard emulation, high-speed read/write performance of up to 848 kbps, robust AES encryption for secure messaging, and automatic lockout after multiple unauthorized access attempts.

With its compact design and rechargeable Lithium-ion battery, the ACR1555U is incredibly portable, making it ideal for use anytime, anywhere, with most Bluetooth-enabled smartphones and tablets. Additionally, a transparent card holder is included, providing protection and convenience for carrying the device.

KEY FEATURES

- Support Bluetooth® 5.2
 - Supports Bluetooth[®] HID mode
 - Support Bluetooth® AES-128 encryption
 - High speed transmission up to 2Mbps
- Support various contactless card type
 - \circ ~ ISO 14443 Type A & B Parts 1-4 ~
 - o ISO 15693
 - ISO 18092 NFC 5 Types of NFC tags
 - MIFARE[®], FeliCa
- ☑ Performance
 - Read/Write ISO 14443 A & B speed of up to 848 kbps
- Support various NFC features
 - o Card Reader/Writer Mode
 - Card Emulation Mode
 - o Bluetooth HID Keyboard Emulation mode
- 🗹 Security
 - o 1 x ISO 7816 Standard SAM slot for improved security
 - o In-device AES-128 Encryption Algorithm (CBC Ciphering Mode)
- Support USB Firmware Upgrade
- Compatibility
 - Support for all major operating systems
 - Windows[®], Linux[®], macOS, iOS, iPadOS, Android[™]



Common Applications

e-Government

e-Healthcare e-Purse and Loyalty Mobile Banking and Payment Network Security Access Control Public Key Infrastructure





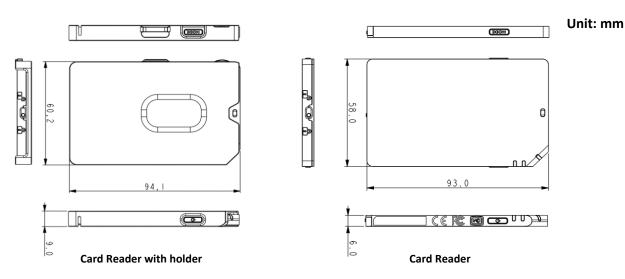
Advanced Card Systems Ltd.

Card & Reader Technologies

TECHNICAL SPECIFICATION

Contactless Smart Card	Interface	Physical Characteristics	
Supported Card Types	ISO 14443 Type A & B Parts 1-4, ISO 15693, ISO 18092, NFC 5 Types of NFC	Dimension (L x W x H)	93.0 x 58.0 x 6.0 mm 94.1 x 60.2 x 9.0 mm (with card holder)
Operating Frequency	tags, MIFARE [®] & FeliCa 13.56 MHz	Weight (±5 g)	31.5 g ± 1.0 g (Card Reader) 39.7 g ± 1.0 g (with Card holder)
Reading Distance	Up to 50 mm (Depending on tag type)		$23.9 \text{ g} \pm 5.0 \text{ g}$ (USB cable)
Read/Write Speed	106/212/424/848 kbps (ISO14443)	Available Colour	White
Supported NFC Mode	26 / 53 kbps (ISO15693) Card Reader/Writer, Card Emulation & Bluetooth HID Keyboard Emulation	USB Cable Card holder	Type-C to Type-A, 1 m (detachable) Transparent
SAM Card Interface	Bidetootin nib Reyboard Endlation	Peripherals	
	1 x ISO 7816 Class A, B and C (5V, 3V,	Buzzer	1 x Buzzer
Standard	1.8V) Standard SIM size slot	LED	1 x LED bi-Color Red and Green 1 x LED Blue
Read/Write Speed	Max. 143kbps		1 x LED Orange
Clock Frequency	4.57MHz	Button	Power on/off
Protocol	T=0, T=1		Mode selection
Bluetooth Interface		Operating Condition	
Protocol	Bluetooth [®] 5.2	Temperature	0 - 60°C
Encryption	Bluetooth AES-128 encryption	Humidity	Max. 90% (non-condensing)
Transmission Speed	2Mbps (BLE High speed Mode)	MTBF	400,000 Hours
USB Interface		Certifications / Complian	nces
Protocol Connector Type	USB CCID USB Type-C	Standards	BQB, USB CCID, PC/SC, Microsoft [®] WHQL, J-LIS
Transmission Speed	USB 2.0 Full Speed (12 Mbps) compatible with USB 3.0	Regulatory / Environmental	CE, FCC, IEC/EN 62368, MIC (AC-24038) TELEC (211-240112), UKCA, VCCI, RoHS
Power Supply	5VDC (500mA Max)		REACH, WEEE
USB Firmware Upgrade	Supported	Supported OS USB Mode	Windows [®] , Linux [®] , macOS, iOS, iPadOS
Power Source		(Lightning not supported)	Android [™]
	Litize weeks were ble Detters 2.70/	Bluetooth HID mode	Windows [®] , Linux [®] , macOS, iOS, iPadOS
Battery type	Li-ion rechargeable Battery 3.7V 450mAh (Charging through USB)	Blactooth hib hiouc	Android [™]

MECHANICAL SPECIFICAITON



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.

Click <u>here</u> for Sales Enquiry Tel: +852-2796-7873 Fax: +852-2796-1286 macOS is a registered trademarks of Apple Inc., registered in the U.S. and other countries. Windows[®] is a trademark of Microsoft Corporation in the United States and/or other countries. AndroidTM is a trademarks of Google LLC. Linux[®] is a registered trademark of Linus Torvalds in the U.S. and other countries.

