

HF | NFC - Handheld Reader ACS - ACR1555U

- ISO 14443 A&B, 15693 & 18092
- Bluetooth® 5.2 (HID & R/W Mode)
- AES-128 Encryption (CBC Mode)
- ISO 7816 SAM slot
- Support all major operations systems



HF | NFC - Handheld Reader Secure Bluetooth® RFID Reader

The ACS Secure Bluetooth® HF | NFC - RFID Reader (ACR1555U) supports the ISO 14443 Type A and B, ISO 15693, and ISO 18092 standards, making it suitable for a wide range of mobile applications.

Equipped with Bluetooth® 5.2 (BLE), the HF | NFC - RFID Reader can be paired with mobile devices or connected to PC systems via USB. Designed for efficient and secure operation, it features smart card reading & writing, card emulation, Bluetooth HID keyboard emulation. Built-in AES encryption enables secure communication and has an automatic lockout function for unauthorised access.

The 450mAh rechargeable lithium-ion battery ensures incredible portability and making it ideal for remote applications such as mobile access management, maintenance and service applications.

Common Applications

- e-Government
- e-Healthcare
- Public Infrastructure
- Maintenance & Service
- Mobile Access Management
- Mobile Point of Sales

A promotional graphic for the ACS ACR1555U. It features the ACS logo and 'Advanced Card Systems Ltd. Card & Reader Technologies'. The main image shows the device with a 'NEW RELEASE' badge. Below it, three application modes are illustrated: 'Reader/Writer Mode' with a card and reader, 'Card Emulation Mode' with a card and smartphone, and 'Keyboard Emulation Mode' with a card and smartphone. The device is labeled 'ACR1555U Secure Bluetooth® NFC Reader'.

TECHNICAL SPECIFICATIONS

Contactless Interface

Operating Frequency	13.56 MHz
Supported Standards	ISO 14443 Type A & B Parts 1-4, ISO 15693, ISO 18092 NFC, MIFARE®, FeliCa, SRI/SRIX, CTS, Innovatron, Picopass, Topaz Card, Card Reader/Writer, Keyboard Emulation, Card Emul.
Reading Distance	Up to 50 mm (Depending on tag type)
Read / Write Speed	106/212/424/848 kbps (ISO14443) 26/53kbps (ISO15693)
Operation Modes	Read / Write, Card Emulation, Keyboard Emulation

SAM Card Interface

Interface	1 x ISO 7816 Class A (5V, 3V, 1.8V) Standard SIM size slot
Protocol	T=0, T=1
Read/Write Speed	Max. 143 kbps
Clock Frequency	4.57 MHz

Host Interface

Interface (wireless)	Bluetooth® 5.2
Protocol (wireless)	Bluetooth AES-128 encryption 2Mbps (BLE High-speed mode)
Interface (wired)	USB Type-C
Protocol (wired)	USB CCID
Interface Speed	USB 2.0 Full Speed (12 Mbps) compatible with USB 3.0
Firmware Upgrades	Supported

Physical Characteristics

Dimension	Main Body: 93 x 58 x 6.0 mm With card holder: 94.1 x 60.2 x 9.0 mm
Weight	31.5 g (w/o card holder)
Connector Type	USB Type-C
Peripherals	Buzzer, 3 x LED's, Power & Mode Button
Temperature	0 - 60°C
Humidity	90% (Non-condensing)
MTBF	500,000 Hours

Electrical Characteristics

Charging	5VDC (500mA max)
Battery	Li-Ion 3.7V / 450mAh
Buzzer	1 x Buzzer (Mono-tone)
LED	3 x LED (Red/Green, Blue, Orange)

Certifications & Compliances

Certifications	IEC/EN 62368, CE, UKCA, FCC, VCCI, KC, RoHS, REACH, WEEE
Compliances	BQB and USB CCID, PC/SC

Drivers & Support

Supported OS	Windows®, Linux®, macOS, iOS, iPadOS Android™
Supported Libraries	CT-API
Tools	Software Development Kit

Part No. / Model

4255892700057	HID / Read Write / PC/SC / Bluetooth
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