

ACR1555U Bluetooth NFC reader



The ACR1555U from ACS is a 13.56 MHz USB contactless smartcard reader that has been designed to support on-the-go smartcard and NFC applications. Featuring Bluetooth Smart connectivity (Bluetooth Low Energy), this extremely portable reader is ideal for use with most Bluetooth-enabled devices including smartphones and tablets. The ACR1555U is an enhanced version of the popular ACR1255U-J1 reader faster read speeds, and extra features.

The ACR1555U now supports ISO 15693 smartcards, in addition to ISO 14443 Type A and B smartcards, as well as MIFARE, FeliCa, and most ISO 18092 compliant NFC tags and devices. PC/SC and CCID compliant, this reader supports all major operating systems including Windows, Linux, Mac OS, iOS, iPadOS and Android.

This reader has a PC/SC mode and a keyboard emulation mode. It also includes an ISO 7816 standard SAM slot for improved security.

Ideal for a broad range of applications, including physical and logical access control, inventory tracking and hands-free verification, the ACR1555U Bluetooth NFC reader has a stylish compact design, incorporating a rechargeable Lithium-ion battery and transparent card holder.

New product, ordered on demand. Delivery typically 2-3 weeks. Contact us for more information, or consider the older [ACR1255U-J1](#), which is still in stock.

13.56MHz NFC contactless USB smartcard reader with Bluetooth Low Energy (BLE) 5.2 interface.

To buy, visit:

<https://www.smartcardfocus.com/shop/ilp/id~988/p/index.shtml>

This Product Briefing has been produced by [Dot Origin Ltd](#), the smart card experts behind [SmartcardFocus.com](#). If you have a query email sales@smartcardfocus.com or call us on +44 (0)1428 685250.

Technical Specifications

Product:

Credential type(s): Contactless

Read/Write: Read and Write

Form factor: Portable

Connector: USB 2.0 CCID (Type C connector), compatible with USB 3.0

OS support: Windows; Linux; MacOS; iOS; iPadOS; Android

Bluetooth Interface:

BLE interface standard: Bluetooth Low Energy/Bluetooth 5.2

BLE transmission speed: 1Mbps and 2Mbps

BLE encryption: Bluetooth AES-128 encryption; ACS proprietary encryption mode

Contactless Card Interface:

Contactless interface standard: ISO 14443, ISO 18092 NFC, ISO 15693

Contactless credential types: ISO 14443 compliant cards, MIFARE Classic, FeliCa, NFC Forum Tags

Contactless operating frequency: High (13.56MHz)

Contactless operating distance: Up to 50mm (2.0in) depending on card/tag

Contactless read/write speed: MIFARE ISO 14443A/B up to 848kbps, iClass 15693 up to 26kbps

Contact Smartcard SAM Interface:

Contact interface standard: ISO 7816 Class A, B and C

Contact card types: Contact chip - SIM sized card

Data transmission protocol: T=0 / T=1

Contact read/write speed: Up to 143kbps

Clock frequency: 4.57MHz

Host Interface:

Host interface standards: PC/SC

Host data transmission speed (wired): 12 Mbps (USB full speed)

Other Features:

Button: Power on/off; Mode selection

Status indicator: LED bi-colour (Red/Green), LED Blue, LED Orange

Buzzer: Monotone

Firmware in-field upgradeable: Yes

Certifications:

Manufacturer's warranty: 1 year

MTBF: 400 000hrs

Type approvals: CE, FCC, UKCA, RoHS, REACH, WEEE, IEC 62368, Bluetooth BQB

Security certifications: FIPS 140-2 Level 3

Application approvals: TELEC (Japan), J-LIS (Japan), KCC (Korea), MIC (Japan), VCCI (Japan)

Country of origin: China

Physical:

Dimensions: 93 x 58 x 6mm (3.7 x 2.3 x 0.24in), or with card holder 94.1 x 60.2 x 9mm (3.7 x 2.4 x 0.35in)

Weight ($\pm 5\%$): 55g (1.9oz) with cable, or 64g (2.6oz) with card holder and cable

Cable length supplied: 1m (39in) detachable

Power:

Supply voltage: 5V DC

Operating current: 500mA (max)

Battery power option: Rechargeable Lithium-ion Battery (charging through USB) 3.7V 450mAh

Environment:

Operating temperature: 0 to 60degC (32 to 140degF)

Operating humidity: 90% RH (non-condensing)

Manufacturer's part number: ACR1555U-A1

Country of origin: China

HSF code: 84719000

Manufacturer: ACS