

ACR1255U Bluetooth NFC reader



The ACR1255U 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 ACR1255U supports ISO 14443 Type A and B smartcards, as well as MIFARE, FeliCa, and most ISO 18092 compliant NFC tags and devices, running Android (4.3 and later), iOS (5.0 and later), Windows (7 and later) and Mac OS (10.7 and later). PC/SC and CCID compliant, this reader supports all major operating systems including Windows, Linux and Mac OS.

Ideal for a broad range of applications, including physical and logical access control, inventory tracking and hands-free verification, the ACR1255U Bluetooth NFC reader features an elegantly compact design and a rechargeable Lithium-ion battery.

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

To buy, visit:

<https://www.smartcardfocus.com/shop/ilp/id~779/acr1255u-bluetooth-nfc-reader/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.

ACR1255U-J1 Technical Specifications

Product:

Credential type(s): Contactless

Read/Write: Read and Write

Form factor: Portable

Connector: USB CCID (USB Mini-B connector)

OS support: Windows 10, 8.1, 8, 7, Vista, XP; Windows Server 2016, 2012 R2, 2012, 2008 R2, 2008, 2003; Linux; Mac OS; Android 4.3 and later; iOS 8.0 and later

Bluetooth Interface:

BLE interface standard: IEEE 802.15.4 (Bluetooth Low Energy/Bluetooth4.0)

Contactless Card Interface:

Contactless interface standard: ISO 14443, ISO 18092 NFC

Contactless credential types: ISO 14443-4 compliant cards, MIFARE Classic, FeliCa, NFC Forum Tags

Contactless operating frequency: High (13.56MHz)

Data transmission protocol: T=CL

Contactless data security: In-device AES-128 Encryption Algorithm (CBC Ciphering Mode)

Contactless encryption: AES-128

Contactless operating distance: Up to 50mm (2.0in)

Contactless read/write speed: Up to 424kbps

Host Interface:

Host interface standards: PC/SC, CT-API (through wrapper on top of PC/SC)

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

Other Features:

Status indicator: 2 bi-colour LEDs - red/blue and red/green

Buzzer: Monotone

Firmware in-field upgradeable: Yes, over USB interface

Colour: White

Certifications:

Manufacturer's warranty: 1 year

MTBF: 400 000hrs

Type approvals: CE, FCC, RoHS 3, REACH, IEC 60950

Application approvals: TELEC (Japan), VCCI (Japan)

Country of origin: China

Physical:

Dimensions: 85 x 54 x 10mm (3.35 x 2.13 x 0.39in)

Weight ($\pm 5\%$): 74.1g (2.6oz) including 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)

Environment:

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

Operating humidity: Up to 85% RH (non-condensing)

Manufacturer's part number: ACR1255U-J1