

ACR1252U-M2 contactless reader



The ACR1252U-M2 reader is an ideal replacement for the popular ACR122U reader - it does everything that the ACR122U did, with the addition of upgradable firmware capabilities, in an identical form-factor. (Only a very few software solutions that used the original ACR122 reader's direct command tunneling feature may need to be updated. For more information refer to [https://buzz.smartcardfocus.com/acr122u-no-longer-available-best-alternative/.](https://buzz.smartcardfocus.com/acr122u-no-longer-available-best-alternative/))

The ACR1252U from ACS is a 13.56 MHz USB contactless smartcard reader that supports ISO 14443 type A and B cards, MIFARE, FeliCa, and ISO 18092-compliant NFC cards and tags. Replacing the popular ACR122U, this reader provides compatibility with a wide range of cards, tags, credentials and up-to-date hardware.

NFC Forum certified, the ACR1252 supports all three modes of NFC with improved performance, including card reader/writer, card emulation and peer-to-peer communication.

The ACR1252U is CCID and PC/SC compliant, allowing interoperability with various different devices and software applications.

The ACR1252U is compatible with **Read-a-Card**, the contactless card ID reading application, useful for the integration/enrolment of RFID technology into new or existing systems.

An SDK is also available, as well as other model variations and OEM modules. Equivalent to ACS part ACR1252U-M1 but without the SAM slot.

13.56MHz NFC contactless USB-A reader. Backward compatible with the ACR122U, with the addition of field upgradable firmware. NFC Forum certified.

To buy, visit:

<https://www.smartcardfocus.com/shop/ilp/id~841/acr1252u-m2-contactless-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.

ACR1252U-M2 contactless reader

Technical Specifications

Product:

Credential type(s): Contactless NFC

Read/Write: Read and Write

Form factor: Portable

Connector: USB CCID (Standard 2.0 Type A connector)

OS support: Windows 10, 8.1, 8, 7, Vista, XP; Windows Server 2016, 2012 R2, 2012, 2008 R2, 2008, 2003; Linux; Mac OS; Solaris; Android 3.1 and later

Contactless Card Interface:

Contactless interface standard: ISO/IEC 18092 NFC, ISO 14443 Type A & B, MIFARE, FeliCa

Contactless credential types: ISO 14443 Part 4 Type A and B cards / MIFARE Classic / FeliCa / NFC Forum Tags Type 1-4

Contactless operating frequency: High (13.56MHz)

Data transmission protocol: T=CL

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:

Anti-collision: only one tag accessed at any time

Status indicator: 1 bi-colour LED (red/green), Monotone buzzer

Firmware in-field upgradeable: Yes

Certifications:

Type approvals: CE, FCC, RoHS 2, REACH, IEC 60950, NFC Forum

Application approvals: J-LIS (Japan), VCCI (Japan), KC (Korea)

Country of origin: China

Physical:

Dimensions: 98 x 65 x 12.8mm (3.9 x 2.6 x 0.50in)

Weight ($\pm 5\%$): 81g (2.9oz)

Cable length supplied: 1m (39in)

Colour: Matt black

Power:

Supply voltage: 5V

Operating current: 200mA (max)

Battery power option: No

Environment:

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

Operating humidity: Up to 90% RH (non-condensing)

MTBF: 500 000hrs

Manufacturer's part number: ACR1252U-M2

Manufacturer: ACS