

ACR1252U-M2/DOT 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/>.)

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-M2/DOT model is housed in a plastic case with a captive cable. It is supplied with the default ACS label shown in the photograph, for you to apply to the reader, but the unbranded reader could just as easily take your own label or branding. We can assist with design and supply of custom labels to suit your application. Contact us to discuss options.

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/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/DOT 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 or ACR1252U-DOT

Manufacturer: ACS