

ACR1252U-MF USB-C contactless reader with SAM



The ACR1252U-MF from ACS is a 13.56 MHz USB-C contactless smartcard reader that supports ISO 14443 type A and B cards, MIFARE, FeliCa, and ISO 18092-compliant NFC cards and tags. This reader is equipped with a SAM slot which provides a high-level of security in contactless and NFC transactions.

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 ACR1252 is CCID and PC/SC compliant, allowing interoperability with various different devices and applications.

This ACR1252U-MF model is housed in a plastic case with a captive cable.

The ACR1252 is compatible with **Read-a-Card**, the contactless card ID reading application, useful for the integration of RFID technology into new or existing systems.

SDK also available.

Limited availability. Contact us for more information, or consider the newer [ACR1552U-MF SAM](#) which is now in stock.

A compact 13.56MHz NFC contactless USB-C reader with a SAM slot. NFC Forum certified. SDK also available.

To buy, visit:

<https://www.smartcardfocus.com/shop/ilp/id~953/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.

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Product:

Credential type(s): Contactless

NFC modes: Read and Write, Peer-to-peer, Card emulation

Form factor: Portable

Connector: USB Type-C

OS support: Windows; Linux; Mac OS; Android

Contactless Card Interface:

Contactless interface standard: ISO 14443 Type A and B; ISO 18092 NFC

Contactless credential types: MIFARE, FeliCa

Contactless operating frequency: High (13.56MHz)

Data transmission protocol: T=CL

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

Contactless read/write speed: 106/212/424kbps programmable

SAM Contact Smartcard Interface:

Contact interface standard: ISO 7816 Class A

Contact card types: Contact chip - SIM sized card

Data transmission protocol: T=0 / T=1

Contact read/write speed: 9.6kbps - 215kbps

Host Interface:

Host interface standards: USB CCID

Host data transmission speed (wired): 12 Mbps (USB 2.0 full speed)

Other Features:

Card detection: Movement detection, Automatic detection of card type, Short circuit and thermal protection

Status indicator: 1 x programmable LED (red and green); 1 x programmable buzzer (monotone)

Firmware in-field upgradeable: Yes

Certifications:

Manufacturer's warranty: 1 year

MTBF: 500 000hrs

Type approvals: CE, FCC, UKCA, RoHS, REACH, WEEE, IEC 62368, NFC Forum

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

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) captive

Power:

Supply voltage: 5V DC

Operating current: 200mA (max)

Battery power option: No

Environment:

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

Operating humidity: 10-90% RH (non-condensing)

Manufacturer's part number: ACR1252U-MF

Country of origin: China

HSF code: 84719000

Manufacturer: ACS