

ACR1552U-MF USB-C contactless reader with SAM



The ACR1552U-MF from ACS is a 13.56 MHz USB-C contactless smartcard reader that supports ISO 14443 type A and B cards, MIFARE, FeliCa, ISO 15693 and ISO 18092-compliant NFC cards and tags. This is the latest evolution of the popular ACR1252, equipped with a SAM slot which provides a high-level of security in contactless and NFC transactions. It boasts faster read/write speeds than previous versions and compatibility with a still wider range of cards.

NFC Forum certified, the ACR1552 supports modes including card reader/writer, card emulation and now keyboard emulation (using a free software download). The ACR1552 is also compatible with **Read-a-Card**, the contactless card ID reading application, useful for the integration of RFID technology into new or existing systems.

The ACR1552 is CCID and PC/SC compliant, for maximum interoperability with various different devices and applications. Supports extended APDU messages (up to 64 kbytes).

This ACR1552U-MF model is housed in a white plastic case with a captive cable. It is supplied with the default ACS branding shown in the photograph, but the 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.

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~971/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

NFC modes: Read and Write, Card emulation, Keyboard emulation (using free tool)

Form factor: Portable

Connector: USB Type C

OS support: Windows; Linux; Mac OS; Android; iOS/iPadOS (16 or above)

Contactless Card Interface:

Contactless interface standard: ISO 14443 Type A and B; ISO 18092 NFC; ISO 15693

Contactless credential types: MIFARE Classic, FeliCa

Contactless operating frequency: High (13.56MHz)

Data transmission protocol: T=CL

Contactless operating distance: Up to 70mm (2.76in) depending on tag type

Contactless read/write speed: 106/212/424/848kbps programmable (ISO14443);
26/53kbps (ISO15693)

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: 13.4kbps - 1250kbps

Clock frequency: 5MHz

Host Interface:

Host interface standards: USB CCID

Host data transmission speed (wired): 12 Mbps (USB 2.0 full speed) compatible with
USB 3.0

Other Features:

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

Firmware in-field upgradeable: Yes

Certifications:

Manufacturer's warranty: 1 year

MTBF: 500 000hrs

Type approvals: CE, UKCA, FCC, RoHS, REACH, WEEE

Security certifications: FIPS 140-2 Level 3

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

Country of origin: China

Physical:

Dimensions: 98 x 65 x 12.8mm (3.86 x 2.56 x 0.50in)

Weight (±5%): 89g (3.1oz)

Cable length supplied: 1m (39in) captive

Power:

Supply Voltage: 5V DC

Current Consumption: 300mA max

Battery power option: No

Environment:

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

Operating humidity: 90% RH (non-condensing)

Manufacturer's part number: ACR1552U-MF

Country of origin: China

HSF code: 84719000

Manufacturer: ACS