

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.

If you would like the free SDK Reader Installer software for this product, please request it in the Special Instructions section when placing your order.

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

Manufacturer: ACS