

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.

**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](mailto:sales@smartcardfocus.com) or call us on +44 (0)1428 685250.

## **ACR1252U-MF USB-C contactless reader with SAM**

### **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 10, 8, 7; Linux; Mac OS; Android 3.1 and later

### **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, UKCA, FCC, RoHS, REACH, WEEE, IEC 62368

Application approvals: NFC Forum Certification Mark, EMV Level 1 (Contact), J-LIS (Japan), VCCI (Japan), TELEC (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)

**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

**Manufacturer:** ACS