

ACR1252U-MW WalletMate USB desktop NFC reader



This version of the ACR1252U has been enhanced, so that it can support the use of mobile wallet passes. It has been certified for Apple VAS (value-added services) and Google Smart Tap applications, such as loyalty schemes, tickets, and staff or student IDs. The ACR1252U-MW is housed in a plastic case with a captive cable.

The ACR1252 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. There is a long term private key stored inside the secure element for Google Smart Tap.

NFC Forum certification means that the ACR1252U supports three modes of NFC: 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.

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.

APIs are available for Apple VAS and Google Smart Tap, along with basic ACS VAS Test Tools for Windows/Linux in the free WalletMate EVK, available on request. These will allow you to test NFC mobile wallet passes on this reader.

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

In order to control the operation of this reader within an application you will need the software development kit, which can be purchased separately. Your application itself will also require approvals before mobile passes can be obtained. If you are developing a mobile wallet application do please contact us and we will be happy to offer advice or help you refine your requirements.

Mobile NFC pass reader with USB connection, compatible with Apple VAS and Google Smart Tap, in a desktop case with captive USB cable

To buy, visit:

<https://www.smartcardfocus.com/shop/ilp/id~973/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-MW contactless reader

Product:

Credential type(s): Contactless

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

Form factor: Portable

Connector: USB Type-A

OS support: Windows; Linux; Mac OS (under development); Android (under development)

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

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

Libraries and tools: WalletMate EVK contains Apple VAS API, Google Smart Tap API, CT-API; ACS VAS Test Tools with API (for Windows/Linux); a Software Development Kit is available to purchase separately from ACS; more tools under development for other operating systems.

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, 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-MW

Country of origin: China

HSF code: 84719000

Manufacturer: ACS