

HF | NFC Stationary Reader **ACS - WalletMate (ACR1252U)**

- Apple VAS & Google Smart Tap Certified
- Support ISO 14443 A&B + ISO 18092
- USB Firmware Upgrades
- Support all major operations systems
- Secure element for LTPK



HF | NFC - Desktop Reader Apple VAS & Google Smart Tap

The Advanced Card Systems WalletMate Mobile Wallet NFC Reader is designed to facilitate mobile NFC applications. Certified by Apple and Google VAS (Value-Added Service) protocols, the WalletMate delivers an ultimate cardless user experience by supporting various virtual passes, such as loyalty cards, tickets, and staff/student ID cards, on both iOS and Android platforms.

With the VAS protocol, users can enjoy an agile and convenient tap-to-go experience, as the host terminal can select a specific wallet pass from the user's mobile device using a unique merchant ID.

The WalletMate is developed based on 13.56 MHz technology and supports ISO 14443 Type A and B cards, MIFARE®, FeliCa, and ISO 18092-compliant NFC tags. It is certified by the NFC Forum, making it capable of operating in all three NFC modes: card reader/writer, card emulation, and peer-to-peer communication.

Compliant with both CCID and PC/SC, this plug-and-play USB NFC device ensures interoperability with various devices and applications. This makes it an ideal solution for integration into different systems, supporting both physical smart cards and virtual wallet passes.

Common Applications

- e-Government
- e-Banking & e-Payment
- e-Healthcare
- Single Sign On
- Loyalty Management
- URL Marketing
- Document Management



TECHNICAL SPECIFICATIONS

Contactless Interface

Operating Frequency	13.56 MHz
Supported Standards	ISO/IEC 18092 NFC (Reader / Writer, Peer to Peer or Card Emulation) ISO 14443 Type A & B, MIFARE®, FeliCa
Reading Distance	Up to 50 mm (Depending on tag type)
Read / Write Speed	106/212/424 kbps (Programmable)
Operation Modes	Read / Write, Peer to Peer, Card Emulation

Host Interface

Interface	USB 2.0
Protocol	USB CCID & PC/SC
Interface Speed	USB 2.0 Full Speed (12Mbps) compatible with USB 3.0
Firmware Upgrades	Supported

Electrical Characteristics

Voltage	5VDC
Consumption	Max. 200mA
Buzzer	1 x Programmable Buzzer (Mono-tone)
LED	1 x Programmable LED (Red & Green)

Physical Characteristics

Dimension	Main Body: 98 x 65 x 12.8 mm Antenna size: 50 x 40 mm
Weight	81 g (USB Type-A)
Connector Type	USB Type-A
IP Protection	N/A
Temperature	0 - 60°C
Humidity	90% (Non-condensing)
MTBF	500,000 Hours

Certifications & Compliances

Certifications	Apple VAS, Google Smart Tap, NFC Forum Certification Mark, IEC/EN 62368, CE, UKCA, FCC, J-LIS, VCCI, TELEC, KC, BIS, RoHS, REACH, WEEE, Microsoft® WHQL
Compliances	USB CCID, PC/SC

Drivers & Support

Supported OS	Windows®, Linux®, macOS, Android™
Supported Libraries	Apple VAS API, Google Smart Tap API, CT-API
Tools	ACS VAS Test Tools with API (Windows, Linux) (More support will come for other operating systems)

Part No. / Model

25-NSR-A01-0003-01	Read Write / PC/SC - USB
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