

HF | NFC - Stationary Reader **ACS - WalletMate II (ACR1552U-MW)**

- Apple VAS & Google Smart Tap Certified
- Supports ISO 14443 Type A & B, ISO 15693, ISO 18092
- Secure element for private key (LTPK) storage
- Plug-and-play via USB CCID / PC/SC compliant
- Compatible with Windows, Linux, macOS & Android



HF | NFC - Desktop Reader Mobile Wallet NFC Reader

The WalletMate II is an NFC reader engineered for seamless mobile wallet integration. Certified by both Apple and Google, it fully supports their respective VAS protocols including ECP 1.0 and ECP 2.0, enabling virtual passes such as loyalty cards, event tickets, and staff or student ID cards on both iOS and Android platforms. A simple tap is all it takes to deliver a smooth, cardless user experience.

Operating at 13.56 MHz, the WalletMate II supports a broad range of contactless card standards including ISO 14443 Type A and B, ISO 15693, ISO 18092, MIFARE, FeliCa, and various NFC tag formats. The private key (LTPK) is securely stored within a dedicated secure element for both Apple VAS and Google Smart Tap, ensuring data integrity and transaction security.

As a CCID and PC/SC compliant device, the WalletMate II is a true plug-and-play solution compatible with all major operating systems. It offers three operational modes - NFC reader/writer, keyboard emulation, and card emulation - making it a versatile and high-performance reader for diverse smart card deployments. With a rated MTBF of 500,000 hours, it delivers outstanding reliability for demanding environments.

Common Applications

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



TECHNICAL SPECIFICATIONS

Contactless Smart Card Interface

| | |
|----------------------|---|
| Supported Card Types | ISO 14443 Type A & B Parts 1-4, ISO 15693, ISO 18092 NFC, MIFARE Classic®, MIFARE® DESFire®, MIFARE Ultralight®, MIFARE Plus®, FeliCa, SRI/SRIX, CTS, Innovatron, Picopass, Topaz |
| Operating Frequency | 13.56 MHz |
| Reading Distance | Up to 50 mm (Depending on tag type) |
| Read/Write Speed | 106/212/424 kbps (Programmable) |
| Anti-Collision | Read / Write, Peer to Peer, Card Emulation |
| Supported NFC Mode | NFC Reader/Writer, Keyboard Emulation, Card Emulation, |

SAM Card Interface

| | |
|------------------|---|
| Standard | 1 x ISO 7816 Class A (5V, 3V) Standard SIM size slot |
| Read/Write Speed | 13.4 kbps – 1,250 kbps |
| Clock Frequency | 5 MHz, up to 10MHz (Upon request) |
| Protocol | T=0, T=1 |

Host Interface

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|---------------------|---|
| Protocol | USB CCID |
| Connector Type | USB Type-A |
| Speed | USB 2.0 Full Speed (12 Mbps) compatible with USB 3.0 |
| Supply Voltage | 5VDC |
| Current Consumption | Max. 300mA |
| Firmware Upgrade | Supported |

Physical Characteristics

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|------------------|--|
| Dimension | Main Body: 98.0 x 65.0 x 12.8 mm Antenna size: 50.0 x 40.0 mm |
| Weight | 86g ± 5 g |
| Available Colour | White |
| Cable Length | 1 m |

Peripherals

| | |
|--------|-------------------------------------|
| Buzzer | 1 x Programmable Buzzer (Mono-tone) |
| LED | 1 x Programmable LED (Blue & Green) |

Operating Condition

| | |
|-------------|---------------------------|
| Temperature | -20 - 70°C |
| Humidity | Max. 90% (Non-condensing) |
| MTBF | 500,000 Hours |

Certifications/ Compliances

| | |
|----------------------------|---|
| Standards | USB CCID, PC/SC, Microsoft® WHQL, J-LIS |
| Regulatory / Environmental | CE, UKCA, FCC, VCCI, RoHS, REACH, WEEE |

Drivers & Support

| | |
|---------------------|-----------------------------------|
| Driver Supported OS | Windows®, Linux®, macOS, Android™ |
| Warranty | 1 Year |