CONTACTLESS READERS

WalletMate

Mobile wallet NFC Reader
(Apple VAS & Google Smart Tap Certified)

The WalletMate Mobile wallet NFC Reader is designed to facilitate mobile NFC applications. Certified by Apple and Google VAS (value-added service) protocols, the WalletMate could bring ultimate cardless user experiences 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 could select a specific wallet pass from the user's mobile through a unique merchant ID.

The WalletMate is developed based on 13.56MHz, it 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 the three NFC modes, namely: card reader/writer, card emulation and peer-to-peer communication.

Compliant with both CCID and PC/SC, this plug-and-play USB NFC device allows interoperability with different devices and applications. It is thus ideal for integrating into various systems to support both physical smart cards and virtual wallet passes.

KEY FEATURES

- ☑ Support various type of card type
    - o ISO/IEC 18092 NFC
    - o ISO 14443 Type A & B (T=CL)
    - o MIFARE®
    - o FeliCa
- ☑ Apple VAS & Google Smart Tap Certified
    - o Well tested and certified by Apple and Google, work with their respective VAS (Value-added service) protocols
- ☑ Secure
    - o Long Term Private Key (LTPK) stored inside secure element for Google Smart Tap
- ☑ Flexible
    - o Read/write speed, LED & Buzzer can be programmable
- ☑ Support USB Firmware Upgrade
- ☑ Reliable
    - o Certified for international regulations
    - o Mean time between failures (MTBF) up to 500k Hours
- ☑ Compatibility
    - o Support for all major operating systems
        - ▪ Windows®, Linux®, macOS, Android™

Common Applications

e-Government
e-Banking and e-Payment
e-Healthcare
Transportation
Network Security
Access Control
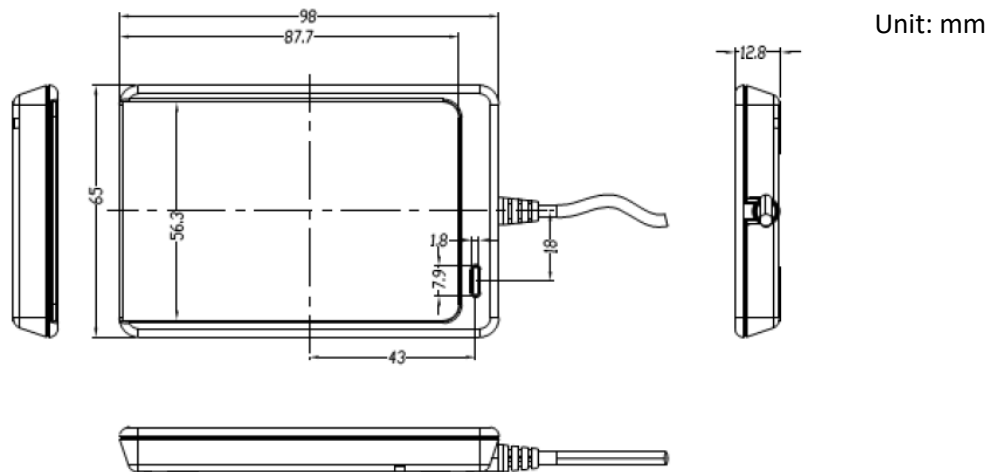Loyalty Program
Smart Poster/URL Marketing
P2P Communication

G Pay

TECHNICAL SPECIFICATION

Contactless Smart Card Interface	
Supported Card Types	ISO/IEC 18092 NFC, ISO 14443 Type A & B, MIFARE®, FeliCa
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	Yes
Supported NFC Mode	NFC Reader/Writer, Peer-to-Peer, Card Emulation

Host Interface	
Protocol	USB CCID
Connector Type	USB Type-A
Speed	USB 2.0 Full Speed (12Mbps)
Supply Voltage	5VDC
Current Consumption	Max. 200mA
USB Firmware Upgrade	Supported

Physical Characteristics	
Dimension (L x W x H)	Main Body: 98 x 65 x 12.8 mm Antenna size: 50 x 40 mm
Weight (±5 g)	81 g (USB Type-A)
Available Colour	Matte Black
USB Cable Length	1 m (Non-detachable)

Peripherals	
Buzzer	1 x Programmable Buzzer (Mono-tone)
LED	1 x Programmable LED (Red & Green)

Operating Condition	
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

Libraries & Tools	
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) Software Development Kit (USD 199)

Drivers & Support	
Driver Supported OS	Windows®, Linux®, macOS, Android™
Warranty	1 Year

Model/Part Number	
Default	ACR1252U-MW (USB Type-A)

MECHANICAL SPECIFICATION

Unit: mm

About ACS

Advanced Card Systems Ltd. (ACS), founded in 1995, is Asia Pacific's top supplier and one of the world's top 3 suppliers of PC-linked smart card readers. ACS is the winner of the Product Quality Leadership Award for Smart Card Readers from Frost & Sullivan. In 2010, 2014 and 2015, ACS was listed in Forbes Asia's "Best Under a Billion" list, an inter-industry list comprised of 200 top-performing publicly listed companies in the Asia-Pacific, with sales between US$5 million and US$1 billion. ACS develops a wide range of high-quality smart card reading/writing devices, smart cards and related products and distributes them to over 100 countries worldwide.

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