



CONTACTLESS READER MODULE

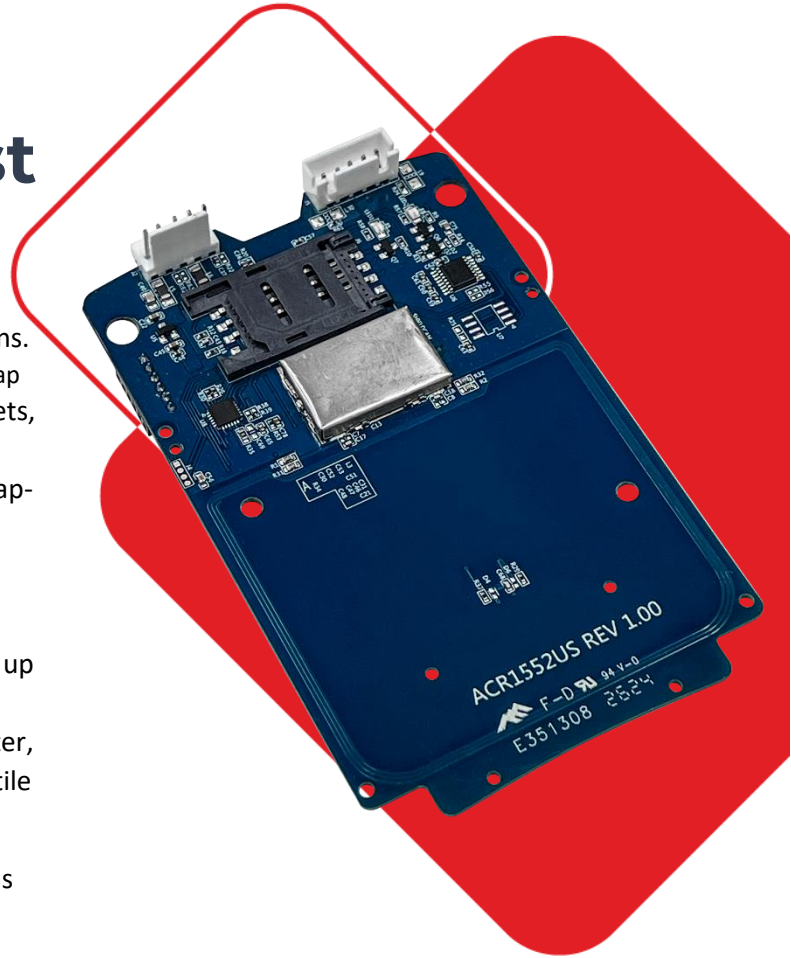
WalletMate II Boost

Boost Mobile Wallet NFC Module

The WalletMate II Boost is a specialized NFC reader module designed to enhance smartphone NFC applications. It has earned certification from Apple VAS and Google Smart Tap protocols, it supports virtual passes like loyalty cards, tickets, and IDs on both iOS and Android, ensuring a seamless, cardless experience. The VAS protocol enables a simple tap-to-go process, allowing terminals to select wallet passes using merchant-specific IDs.

This CCID & PC/SC compliant module is plug-and-play, offering high-speed communication for contactless cards up to 848 kbps, making it perfect for high-performance applications. It operates in three modes: NFC reader/writer, keyboard emulation and card emulation, providing a versatile solution for various smart card needs.

The WalletMate II Boost integrates easily into applications such as vending machines, kiosks, and gaming systems. It features an integrated antenna, optional serial cable, firmware upgradeability, and extended APDU support, making it a comprehensive choice for diverse applications.



KEY FEATURES

- ✓ **Support various types of contactless card**
 - ISO 14443 Type A & B
 - ISO 15693
 - ISO 18092-compliant NFC tags
 - MIFARE Classic®, MIFARE DESFire®, MIFARE Ultralight®, MIFARE Plus®, FeliCa and Topaz
- ✓ **Apple VAS & Google Smart Tap Certified**
 - Certified for Apple VAS and compatible with Google Smart Tap protocols
 - Support ECP1.0 and ECP 2.0
- ✓ **Support various NFC modes**
 - Smart Card Reader/Writer
 - Card Emulation
 - Keyboard Emulation Mode (USB interface only)
- ✓ **Secure**
 - Private Key stored inside secure element for Apple VAS and Google Smart Tap
- ✓ **Flexible**
 - Read/write speed, LED & Buzzer can be programmable
- ✓ **Support Firmware Upgrade**
- ✓ **Reliable**
 - Certified for international regulations
 - Mean time between failures (MTBF) up to 500k Hours
- ✓ **High Compatibility**
 - Support for all major operating systems
 - Windows®, Linux®, Mac OS®, Android™



Common Applications

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



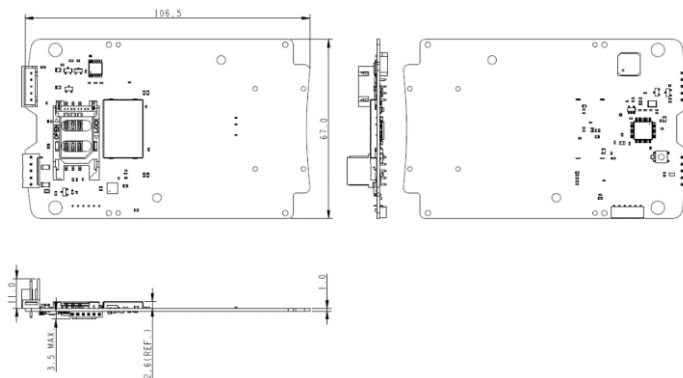


TECHNICAL SPECIFICATION

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 and Topaz
Operating Frequency	13.56 MHz
Reading Distance	Up to 70 mm (Depending on tag type)
Read/Write Speed	106/212/424/848 kbps (ISO 14443) 26 kbps (ISO 15693)
Anti-Collision	Yes
Supported NFC Mode	Card Reader/Writer, Keyboard Emulation, Card Emulation
SAM Card Interface	
Standard	1 x ISO 7816 Class A (5V) 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	
Protocol	USB or RS-232 (TTL, Upon request)
Connector Type	USB Port connector (J2): 5pin, Molex KK 254 Wire-to-Board Header compatible Serial Port Connector (J5): 5pin, JST B5B-XH-A compatible
USB Speed	USB 2.0 Full Speed (12 Mbps) compatible with USB 3.0
RS232 Speed	9.6 Kbps, 19.2 Kbps, 38.4 Kbps, 57.6 Kbps, 115.2 Kbps(default), 230.4 Kbps
RS232 default setting	115200 bps, 8 data bits, no parity, 1 stop bit
Supply Voltage	5VDC
Current Consumption	Max. 300mA
Firmware Upgrade	Supported

Physical Characteristics	
Dimension (L x W x H)	106.6 mm × 67.0 mm × 16.0 mm Antenna Size: 65 x 60 mm
Weight	20g ± 0.2 g
Cable Length	1.5 m, Detachable (Optional)
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 , Apple VAS, Google Smart Tap
Regulatory / Environmental	CE, UKCA, FCC, VCCI, RoHS, REACH, WEEE, MIC
Libraries & Tools	
Libraries	Apple VAS API, Google Smart Tap API, CT-API
Tools	ACS VAS Test Tools with API Software Development Kit
Drivers & Support	
Driver Supported OS	Windows®, Linux®, macOS®, Android™, iPadOS®
Warranty	1 Year
Model/Part Number	
Default	ACM1552D-CW

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. ACS was listed in Forbes Asia's "Best Under a Billion" list for several years, 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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