

HF | NFC - Reader Module

ACS - WalletMate II Boost (ACM1552D-CW)

- ISO 14443 A/B, ISO 15693, ISO 18092
- MIFARE, DESFire, FeliCa & Topaz Support
- Plug & Play via USB & RS-232
- Reader/Writer, Card Emulation & Keyboard Emulation
- Firmware upgradeable



HF | NFC - Desktop Reader Secure NFC for Smart Applications

The WalletMate II Boost is a specialized NFC reader module designed to enhance smartphone NFC applications. Certified by Apple and Google VAS 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.

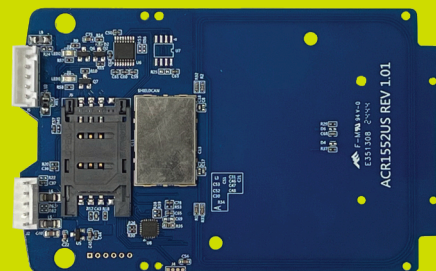
The WalletMate II Boost integrates easily into applications such as vending machines, kiosks, and gaming systems. It features an integrated antenna, optional serial cable, firmware upgradeability, and extended APDU support, making it a comprehensive choice for diverse applications.

Common Applications

- e-Government
- e-Banking and e-Payment
- e-Healthcare
- Transportation
- Network Security
- Access Control



Advanced Card Systems Ltd.
Card & Reader Technologies



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 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

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	106.6 mm × 67.0 mm × 16.0 mm Antenna Size: 65 × 60 mm
Weight	20g ± 0.2 g
Color	1.5 m, Detachable (Optional)

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

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