



CONTACTLESS READER MODULE

ACM1552D-C7

USB/Serial NFC Reader Module(With SAM Slot)

The ACM1552D-C7, USB/Serial NFC Reader Module(With SAM Slot) is designed with 13.56 MHz contactless technology, supporting ISO 14443 Parts 1-4 Type A and B cards, MIFARE Classic® series, ISO 15693, and ISO 18092 standards. It features USB/RS232 interface and offers a card reading distance of up to 70 mm.

This Plug and Play device includes an ISO 7816-compliant SAM slot for high-level security in contactless transactions, ensuring easy integration into embedded systems. It achieves high-speed communication at up to 848 Kbps for ISO 14443 and 26 Kbps for ISO 15693.

The ACM1552D-C7 supports card reader/writer mode, card emulation mode and Keyboard Emulation (USB interface only), making it a versatile, cost-effective choice for applications like vending machine payment systems, kiosks, and gaming machines. It also features an integrated antenna, USB firmware upgradeability, and extended APDU support.



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
- Support various NFC modes**
 - Smart Card Reader/Writer
 - Card Emulation
 - Keyboard Emulation Mode (USB interface only)
- 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®, macOS®, Android™

Common Applications

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



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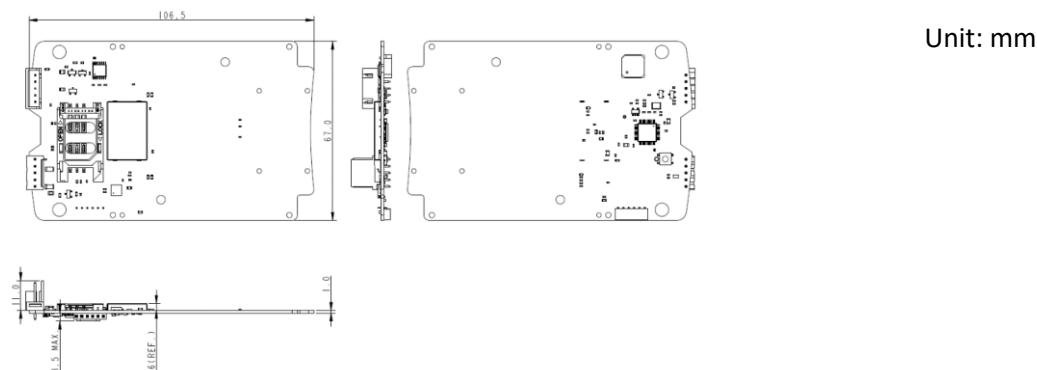
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TECHNICAL SPECIFICATION

Contactless Smart Card Interface		Physical Characteristics
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	Dimension (L x W x H) 106.6 mm x 67.0 mm x 16.0 mm Antenna : 65.0 x 60.0 mm
Operating Frequency	13.56 MHz	Weight 20g ± 0.2 g
Reading Distance	Up to 70 mm (Depending on tag type)	Cable Length 1.5 m, Detachable (Optional)
Read/Write Speed	106/212/424/848 kbps (ISO 14443) 26 kbps (ISO 15693)	Peripherals
Anti-Collision	Yes	Buzzer 1 x Programmable Buzzer (Mono-tone)
Supported NFC Mode	Card Reader/Writer, Keyboard Emulation (USB interface only), Card Emulation	LED 2 x Programmable LED (Blue & Green)
Antenna Size	65 mm x 60 mm	Operating Condition
SAM Card Interface		Temperature -20 - 70°C
Standard	1 x ISO 7816 Class A (5V) Standard SIM size slot	Humidity Max. 90% (Non-condensing)
Read/Write Speed	13.4 kbps – 1,250 kbps	MTBF 500,000 Hours
Clock Frequency	5 MHz, up to 10MHz (Upon request)	Certifications/ Compliances
Protocol	T=0, T=1	Standards USB CCID, PC/SC, Microsoft® WHQL, J-LIS
Host Interface		Regulatory / Environmental CE, UKCA, FCC, VCCI, RoHS, REACH, WEEE
Protocol	USB or RS-232 (TTL/UART, Upon request)	Drivers & Support
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	Driver Supported OS Windows®, Linux®, macOS®, Android™,
USB Speed	USB 2.0 Full Speed (12 Mbps) compatible with USB 3.0	Warranty 1 Year
RS-232 Speed	9.6 Kbps, 19.2 Kbps, 38.4 Kbps, 57.6 Kbps, 115.2 Kbps(default), 230.4 Kbps	Model/Part Number
Supply Voltage	5VDC	Default ACM1552D-C7
Current Consumption	Max. 300mA	
Firmware Upgrade	Supported	

MECHANICAL SPECIFICATION



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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