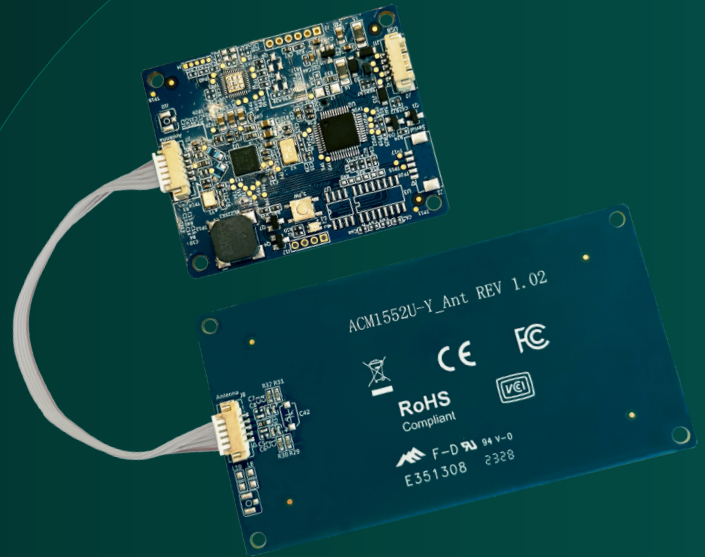


HF | NFC Reader Module **ACS - ACM1552U-Y3**

- ISO 14443 A&B, 15693 & 18092
- Detachable antenna
- Up to 70mm reading range
- USB Firmware Upgrades
- Support all major operations systems



HF | NFC - Reader Module Module with separate antenna

The ACS ACM1552U-Y3 are HF | NFC - RFID reader modules with detachable antennas and based on 13.56 MHz contactless technology. The NFC Forum-certified NFC III reader supports the ISO 14443 Type A and B, ISO 15693, and ISO 18092 standards. In addition the reader module can be equipped with a SAM slot supporting ISO 7816 standard for improved security. (on request)

Compliant with both CCID and PC/SC standards, this plug-and-play HF | NFC - RFID reader module is equipped with high-speed communication capabilities of up to 848 kbps. The reader supports USB firmware upgradability and extended contactless APDU commands, making it a versatile and cost-effective hardware solution for various industries, such as office, healthcare, and government.

The HF | NFC - RFID reader module offers intelligent support for three NFC operating modes: reader/writer, card emulation, and keyboard emulation. The flexibility due to the compact form factor and detachable antenna enables numerous potential applications, such as smart displays, industrial automation, point of sales, and point of care.

Common Applications

- Smart Displays
- Point of Care
- Kiosk Systems
- Industrial Automation
- Access Management
- Point of Sales

**Advanced Card Systems Ltd.**
Card & Reader Technologies

**ACM1552U**
NFC Reader Module
NEW RELEASE

**ACM1552U-Y3**
USB NFC Reader Module
With Detachable Antenna Board

**ACM1552U-Z2**
Small NFC Reader Module

TECHNICAL SPECIFICATIONS

Contactless Interface

Operating Frequency	13.56 MHz
Supported Standards	ISO 14443 Type A & B Parts 1-4, ISO 15693, ISO 18092 NFC, MIFARE®, FeliCa, SRI/SRIX, CTS, Innovatron, Picopass, Topaz Card, Card Reader/Writer, Keyboard Emulation, Card Emul.
Reading Distance	Up to 70 mm (Depending on tag type)
Read / Write Speed	106/212/424/848 kbps (ISO14443) 26/53kbps (ISO15693)
Operation Modes	Read / Write, Card Emulation, Keyboard Emulation

SAM Card Interface (optional)

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

Host Interface

Interface	USB 2.0
Protocol	USB CCID / PCSC
Interface Speed	USB 2.0 Full Speed (12 Mbps) compatible with USB 3.0
Firmware Upgrades	Supported

Physical Characteristics

Dimension	Main Body: 55 x 45 x 6.5 mm Antenna Board: 91 x 49.5 x 5.0 mm
Weight	27.7 g
Connector Type	5pin JST SH series
IP Protection	N/A
Temperature	0 - 60°C
Humidity	90% (Non-condensing)
MTBF	500,000 Hours

Electrical Characteristics

Voltage	5VDC
Consumption	Max. 300mA
Buzzer	1 x Programmable Buzzer (Mono-tone)
LED	1 x Programmable LED (Blue & Green)

Certifications & Compliances

Certifications	IEC/EN 62368, CE, UKCA, FCC, VCCI, KC, RoHS, REACH, WEEE, J-LIS, Microsoft® WHQL
Compliances	USB CCID, PC/SC

Drivers & Support

Supported OS	Windows®, Linux®, macOS, Android™
Supported Libraries	CT-API
Tools	Software Development Kit

Part No. / Model

25-NRM-A01-0003-01	HID / Read Write / PC/SC
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