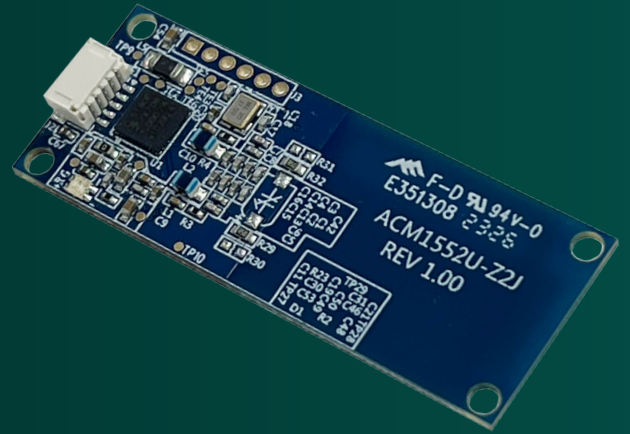


## HF | NFC Reader Module ACS - ACM1552U-Z2

- ISO 14443 A&B, 15693 & 18092
- Ultra compact form factor
- Up to 70mm reading range
- USB Firmware Upgrades
- Support all major operations systems



## HF | NFC - Reader Module Advanced contactless OEM reader

The Advanced Card Systems ACM1552U-Z2 is the fourth generation of HF | NFC - RFID reader modules developed 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.

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 ultra compact reader module offers intelligent support for three NFC feature modes: reader/writer, card emulation, and keyboard emulation. The flexibility of this HF | NFC - RFID reader module enables numerous potential applications, such as healthcare, access control, ticketing, and membership management.

Its small form factor offers a huge flexibility and easy integration into compact devices such as handheld terminals, kiosk system or EV chargers.

## Common Applications

- Healthcare
- Point of Care
- Kiosk Systems
- EV Chargers
- Smart Displays
- Point of Sales

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

**ACM1552U**  
NFC Reader Module

**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

#### 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: 52 x 20 x 5.7 mm
Weight	3.4 g (USB Type-A)
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. 200mA
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-A01-0004-01	HID / Read Write / PC/SC
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