IDCR@FT
RFID & NFC EXPERTS

HF | NFC - Stationary Reader
ACS - ACR1222L

- ISO 14443 A&B & 18092
- Three ISO 7816 - SAM slots
- USB Type - A
- USB Firmware Upgrades
- Support all major operations systems

HF | NFC - Desktop Reader
Interactive Standalone Terminal

The Advanced Card Systems ACR1222L VisualVantage NFC Reader is a standalone NFC device designed for interactive applications. It is built on 13.56 MHz contactless smart card technology and supports NFC Forum–certified ISO 14443 Type A/B cards as well as other contactless smart card standards.

Developed as a fully standalone-capable reader, the ACR1222L features a backlit LCD display, a 4-directional joystick, multiple buttons, and an integrated buzzer - all enabling intuitive and user-friendly interaction. Its PC/SC and CCID compliance allows seamless integration into existing infrastructure.

With extended APDU support, USB firmware upgradability, and high-speed communication, the ACR1222L provides a flexible and reliable solution for various industries, including retail, access control, transportation, and self-service environments.

Combining standalone functionality, interactive display features, and advanced NFC technology, the ACR1222L is a versatile terminal for modern applications such as ticketing, loyalty programs, membership management, and digital payment systems.

Common Applications

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

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

TECHNICAL SPECIFICATIONS

Contactless Smart Card Interface

Operating Frequency	13.56 MHz
Standard	ISO/IEC 18092 NFC, ISO14443 Type A & B, MIFARE, FeliCa
Protocol	ISO 14443 T=CL for ISO14443-4–compliant cards T=CL Emulations for MIFARE Classic, ISO 18092, FeliCa and NFC tags
Operating Distance	Up to 50 mm (depending on tag type)
Smart Card Read/Write Speed	106 Kbps, 212 Kbps, 424 Kbps
Antenna Size	56 mm × 64 mm

USB Host Interface

Protocol	USB CCID
Connector Type	Standard Type A
Power Source	From USB Port
Speed	USB Full Speed (12 Mbps)
Supply Voltage	5 V
Cable Length	1,5 m, fixed

Physical Characteristics

Dimension	Main Body: 133.5 x 88.5 x 21.0 mm incl. Stand: 158 x 95 x 95 mm
Weight	173 g (Reader) 415 g (incl. Stand)
Color	Black

SAM Card Interface

Number of Slots	3 Standard SIM-sized Card Slots
Standard	ISO 7816, Class A (5 V)
Protocol	T=0; T=1
Smart Card Read/Write Speed	9.6 Kbps – 344 Kbps
Card Connecter Type	SAM Slot 0-2: Contact

Built-in Peripherals

LCD	Graphic LCD with yellow-green backlight 128 pixels × 32 pixels Number of characters: 16 characters × 2 lines
LED	4 single-color: Green, Blue, Orange, and Red
Buzzer	Monotone

Operating Conditions

Temperature	0°C – 50°C
Humidity	Max. 90% (non-condensing)
MTBF	300,000 hrs

Certifications & Compliances

ISO 7816 (SAM slot), ISO 14443, ISO 18092, USB Full Speed, PC/SC, CCID, CE, FCC, RoHS
VCCI (Japan), KC (Korea), Microsoft® WHQL