

HF | NFC - Stationary Reader ACS - ACR1251T

- ISO/IEC 14443 Type A & B, ISO/IEC 18092 (NFC / NFCIP-1)
- MIFARE® and FeliCa
- USB Full Speed interface (12 Mbps)
- USB CCID and PC/SC compliant
- Windows®, Linux®, macOS®, Solaris, Android™



HF | NFC - Stationary Reader Portable Secure Authentication

The ACR1251T from Advanced Card Systems Ltd. is a compact USB token NFC reader designed for secure contactless authentication and identity verification. Based on 13.56 MHz technology and compliant with ISO/IEC 14443 and ISO/IEC 18092 standards, the device enables reliable communication with contactless smart cards, NFC tags and NFC-enabled devices.

Its CCID and PC/SC compliance ensures seamless integration with enterprise systems, while firmware upgrade capability allows long-term support for evolving applications. The integrated antenna and anti-collision feature provide stable and accurate card reading performance in authentication and transaction environments.

With its portable form factor, strong standards compliance and broad platform compatibility, the ACR1251T is well suited for secure authentication, access control and digital identity deployments.

Common Applications

- Personal identity verification
- Network and system login
- e-Banking and micropayment
- Access control systems
- Loyalty and marketing applications
- Smart poster and NFC interaction



TECHNICAL SPECIFICATIONS

Physical Characteristics

Dimensions	75.0 mm (L) × 30.0 mm (W) × 12.7 mm (H)
Weight	15.8 g
Color	Black Grey

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
Supply Current	Max. 200 mA

Built-in Peripherals

LED	1 bi-color: Red and Green
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Application Programming Interface

PC-linked Mode	PC/SC CT-API (through wrapper on top of PC/SC)
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Contactless Smart Card Interface

Standard Protocol	ISO/IEC 18092 NFC, ISO 14443 Type A & B, MIFARE, FeliCa
	ISO 14443 T=CL for ISO 14443-4-compliant cards, T=CL Emulation for MIFARE Classic, ISO 18092, FeliCa and NFC tags
Operating Frequency	13.56 MHz
Operating Distance	Up to 30 mm (depending on tag type)
Smart Card Read/Write Speed	106 Kbps, 212 Kbps, 424 Kbps
Antenna Size	20 mm × 20 mm

Operating Conditions

Temperature	0 °C – 60 °C
Humidity	Max. 90% (non-condensing)
MTBF	500,000 hrs

Certifications/Compliance

EN 60960/IEC 60950, ISO 14443, ISO 18092, USB Full Speed, PC/SC, CCID, CE, FCC, RoHS, REACH, VCCI (Japan), MIC (Japan), Microsoft® WHQL