Product Information ▸

The ACR122U NFC reader is the world's first NFC reader compliant with the CCID specification. The ACR122U and its token version - ACR122T are designed to support not only Mifare® and ISO 14443 Type A and B cards but also FeliCa and NFC tags.
Comprehensive SDK – ACS provides a comprehensive collection of sample codes for device and contactless card programming using the latest versions of powerful object-oriented programming languages Java, Delphi 7, Visual Basic 6, Visual C++ 6, Visual C++ 2005 (x64), Visual C# 2005 and Visual Basic .Net 2005. The extensive set of development tools and reference materials in the SDK allows you to use the ACR122U/ T for RFID-based solutions, such as e-payment, access control, personal identity verification, mass transit and toll road fare collection. With this complete ACR122U SDK, you can optimize the use of ACR122U/T for your contactless and NFC applications.
Peer-to-Peer Capability – As an additional SDK feature, ACS provides you the option to experience a simulation of a real-world NFC peer-to-peer application – a Smart Poster application. Two ACR122U/T NFC readers are needed for the peer-to-peer demo since one ACR122U/T acts as the smart card poster and the other one as the NFC device. The demo shows the capability of these two devices to exchange data via the peer-to-peer operating mode.

SDK Contents ▸

ACR122U NFC Contactless Smart Card Reader

- · CCID-compliant
- · PC/SC-compliant
- · Read/write speed up to 424 kbps
- · Built-in antenna for contactless tag access, with card reading distance of up to 50 mm (depending on tag type)
- · Support ISO 14443 Type A and B, Mifare®, FeliCa and all 4 types of NFC (ISO/IEC 18092) tags
- · Support all 3 modes of NFC: reader, card emulation and peer-to-peer modes
- · Built-in anti-collision feature (at least 1 card is detected when multiple cards are presented
- · USB Full Speed (12 Mbps)
- · Bi-color LED
- · Compact size: 98 mm (L) x 65 mm (W) x 12.8 mm (H)
- · Light Weight: 70 g
- · Compliance with CE, FCC, VCCI and RoHS

ACR122T NFC Contactless Smart Card Reader

- · CCID-compliant
- · PC/SC-compliant
- · Read/write speed up to 424 kbps
- · Built-in antenna for contactless tag access, with card reading distance of up to 50 mm (depending on tag type)
- · Support ISO 14443 Type A and B, Mifare®, FeliCa and all 4 types of NFC (ISO/IEC 18092) tags
- · Support all 3 modes of NFC: reader, card emulation and peer-to-peer modes
- · Built-in anti-collision feature (at least 1 card is detected when multiple cards are presented
- · Extractable USB plug
- · USB Full Speed (12 Mbps)
- · Bi-color LED
- · Compact size: 75 mm (L) x 30 mm (W) x 9.9 mm (H)
- · Light Weight: 15 g
- · Compliance with CE, FCC, VCCI and RoHS

Test Cards

- 5 x Mifare 1K Contactless Cards
- 3 x Topaz Tags

CD-ROM

- **Software drivers**
- **Tools and Utilities**
    - ACR122U Tool – lets you to perform reader and card-related commands
    - QuickView – checks for proper driver installation
    - ACS Easy Key – allows you to change Mifare security settings
    - ACR122U Scripting Tool – allows you to send a sequence of commands to contactless cards
- **Sample codes**
    - Demonstrate basic commands used to communicate with the cards and readers
    - Available in the following programming languages: Java, Delphi 7, Visual Basic 6, Visual C++ 6, Visual C++ 2005 (x64), Visual C# 2005 and Visual Basic .Net 2005
- **Demo Applications**
    - NFC Peer-to-Peer Demo
    - Visitor Management System Demo
- **Reference Manuals**
- **Operating System Support**
    - Windows 98, ME, 2000, XP, Vista