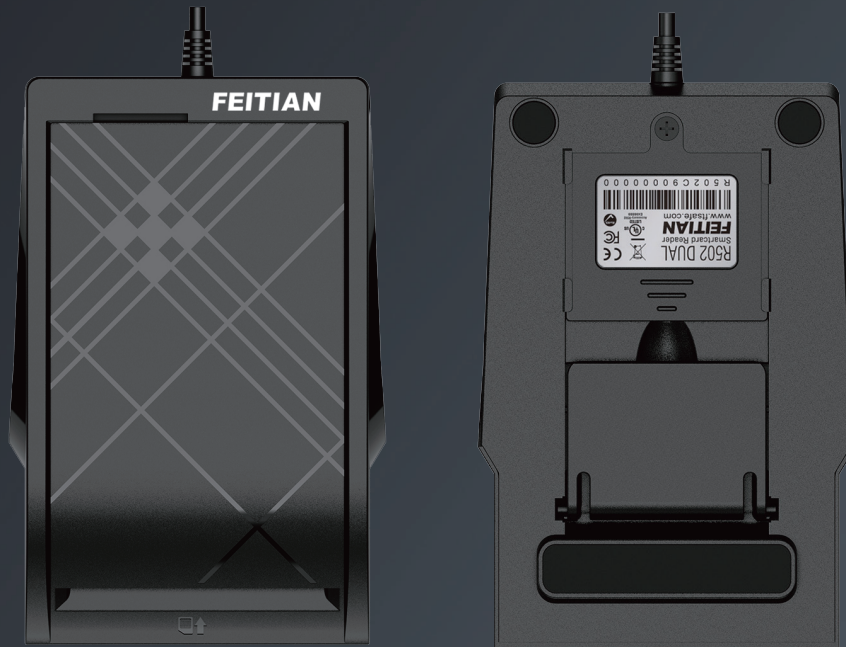


R502-Dual

CCID Dual Interface Smartcard Reader



Overview

R502 is a dual-interface smart card reader developed by Feitian Technologies. It is based on CCID driver, supports contact cards that compliant with ISO 7816 and contactless cards that compliant with ISO 14443, and contactless cards following the Mifare standard.

R502 is a terminal interface device for smart card applications and system integration. Its firmware supports upgrade. With support for smart cards using different interfaces, R502 can be widely used in industries or applications requiring electronic payment and authentication, especially suitable for high security fields. It is an optimal solution in authentication, e-commerce, financial organizations, access control etc.

Features

- USB 2.0 full speed device
- Short Circuit Protection
- Support extended APDU (Application Protocol Data Unit)
- Supports ISO 7816 class A, B and C smart cards, compliant with ISO 7816-1/2/3 T=0 and T=1
- Built-in antenna
- Built-in anti-collision feature
- Supports contactless cards compliant with ISO 14443 type A and B
- Supports Mifare S50 / S70 / Ultralight C cards and DESFire card, FeliCa® card
- Led status indicator: Different indication for Power ON, Contact card in use, Contactless card in use
- Firmware supports upgrading in encryption
- Open UID (user ID) function
- Firmware encryption mechanism, anti-reverse analysis
- Supports PPS (Protocol and Parameters Selection)

Key Applications

- e-Government
- e-Banking
- e-Payment
- e-Healthcare
- e-Passport
- Network Access Control

PKI Applications

- Digital Signature
- Identification

Specifications

Casing Number	C9	Dimension	120 x 80 x 25.6 mm
Interface	USB2.0 Full Speed	Cable	Fixed, 1.5m
Power Supply	USB port 5V DC	Connector	USB Type-A (optional: USB Type-C)
Supply Current	<100mA (Without Card Plug-in) max.300 mA	Weight	128g
		Material	ABS+PC
Supported Card Types	1.8V, 3V and 5V	Status Indicators	Red, Green and Blue LED
Supported Card Size	ISO 7816-3 ID-1 (full-size)	Meantime Between Failure (MTBF)	500,000 hours
Supported Contact Cards	ISO7816 T=0/T=1, Class A,B and C	Working Temperature	0°C ~ 60°C
Card Clock Frequency	4MHz	Storage temperature	-20°C ~ 85°C
Card Read /Write Speed	10753~688172bps (depending on the card)	Humidity	≤90% No Condensation
Durability	500,000 insertions	Custom Items	OEM logo, packaging, color and firmware
Supported Contactless Cards	ISO 14443 Type A and B cards, Mifare Classic and Mifare Ultralight C cards and DESFire card, FeliCa® card	Warranty	One year
Card Clock Frequency	13.56MHz	Certification/Compliance	CE / FCC / RoHS / EMV Level 1 / NFC Forum / LITIC / BSMI / UL / TELEC / FIPS 201 / Microsoft WHQL
Card Read /Write Speed	106kbps, 212kbps, 424kbps, 848kbps (Depends on card)	Supported OS	Win2000+ / Win 10 / Win 11 / Linux / macOS / UNIX / Android(OTG) / iOS 16.1+ / iPadOS 16.1+
Operating Distance	0-50mm (+/-10 mm)		
Hardware Security	Short circuit protection Thermal protection Over-voltage protection High security level chipset Electrostatic prevention	Standards	ISO 7816 Standard ISO 14443 Standard Mifare® Standard EMV2000 Level 1 Standard USB2.0 Standard PC / SC Standard CCID Standard WINSCard API ISO / IEC 18092 (NFC) FeliCa® Standard
Firmware Security	Firmware cannot be read out Anti-reverse analysis Firmware encryption mechanism Firmware upgradability in encryption		