

BioR502 Dual

Fingerprint Smart Card Reader



Compliant with PC/SC, CCID Standards

Supports ISO-7816-1/2/3 T=0 and T=1,
Class A, B and C Cards

Supports ISO-14443 standard card,
including Type A, Type B, and Mifare® Family

Supports secure firmware upgrades through USB

Supports Android / Windows / Linux

Anti-reverse engineering & self-protection,
firmware can't be read

Indicators for 4 status (reader/card/battery/fingerprint sensor)

Logo, case color, and shell surface treatment process customizable

Photoelectric hybrid fingerprint sensor

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The FEITIAN BioR502 is designed to meet tough security needs without sacrificing convenience. The device has a USB Type C female port allowing for it to be connected to a PC with the proper USB-A or USB-C adaptor. Various biometric sensors such as SecuGen, SupreMa, ZKTeco and Morpho are supported by the card reader. The biometric sensor should be selected based on customer requirements.

Additional drivers may be required so it is recommended to check with the biometric sensor vendor. The SupreMa module offers a plug and play experience with no need to install a driver. The SecuGen and Morpho modules require their own driver for the respective biometric sensors.

The BioR502 supports one ID-1 size chip card interface slot, one contactless card slot, and two (secure authentication module (SAM) slots located on the back of the reader. The four LED lights inform the user of the reader/card/biometric sensor status. The strong biometric sensor integration provides a total security solution.

The fingerprint reader is supported on the Android platform and can be connected by the appropriate cable allowing for wide scale adoption of smart card applications.

In addition, the reader acts as a standard smart card reader and is compliant with PC/SC and CCID standards.

The FEITIAN fingerprint reader suits customers where the security concerns are of the utmost importance while satisfying the demand for a flexible solution for ID authentication, e-commerce, e-payment, information and access control.

This fingerprint reader series and the rest of FEITIAN's smart card reader product line offers a complete solution for each individual use case.

Specifications

Host Interface	USB 2.0 CCID (also compliant with USB 1.1)	Material	ABS + PC	Default Fingerprint Module	SecuGen U10
USB Port	USB Type C female on reader port	Dimension	128 × 78 × 46 mm	Definition	500 DPI
Transmission Speed	12Mbps (USB 2.0 High Speed)	Weight	200g	Resolution	252 × 330 pixels
Extended APDU length	Supported	Working Temperature	0°C ~ 60 °C	Platen Size	15.2 × 20.2 mm
Power to Smart Card	75 mA (typical) < 150 mA (max)	Storage Temperature	-20°C ~ 85°C	Sensor Area	12.8 × 16.8 mm
Contact	Supported Card Types: 1.8V, 3V and 5V Smart Card Interface Speed: 10753~625kbps (when supported by card) Smart Card Clock Frequency: 4M ISO 7816-3 ID-1 (full-size) ISO/IEC7816, T=0 and T=1 protocol, Class A, B, C cards	Humidity	≤ 90% (non-condensed)	Image Gray Scale	256 levels (8-bit)
Contactless	Build-in antenna 106kbps-424kbps Smart Card Clock Frequency: 13.56MHz ISO 14443 Type A and Type B, Mifare® Protocol, Felica® protocol	Power Supply	USB port 5V DC	Light Source	LED
Customizable Items	OEM logo, packaging, color and firmware	Working Current	< 100mA without card plugged	Smart Capture Speed	0.2 ~ 0.5 seconds
Certificate Compliances	CE / FCC / RoHS / EMV Level 1 / LTIC / BSMI / NFC / TELECOM	Status Indicator	Blue, Red, Yellow	Biometric Standards	INCITS 378, ISO / IEC 19794-2, ISO / IEC 19794-4
Supported Operating Systems	Windows 10 / 8.1 / 8 / 7, Windows Server 2016, 2012, 2008 R2, Android 3.1 and above, Java, Linux	Connector Cable	1m USB Type C to Type A cable	Compliance	FCC, CE, KCC, RoHS, FIPS 201, FBI (PIV, Mobile ID FAP 10)
Standard	ISO-7816 Class A, B, C (5V, 3V, 1.8V), ISO 14443 Standard, Felica®, Mifare®, EMV Level 1, PC / SC, USB 2.0, CCID	Contact Principle	Landing contact technology (contact part)	Features	Auto-On™, Smart Capture™
		Durability	300,000 insertions	Optional Fingerprint Modules	SecuGen U20, SupreMa BM-Slim2, BM-Slim2S, Morpho CBM-E3 or CBM-V3 ZKTeco SLK20M
		Features	Plug and Play Readily Compliant Suits Any Application Open UID (user ID) function		
		Physical Security	Short circuit and thermal protection / over-voltage protection High security level chipset Electrostatic prevention		
		Firmware Security	Firmware encryption mechanism Firmware upgradability in encryption Firmware cannot be read out Anti-reverse analysis		
		Meantime Between Failure (MTBF)	500,000 hours		
		Warranty	Up to two years manufacturer's warranty.		