



Dual Interface Smart Card Reader with Fingerprint Scanner SFR02

General

SFR02 Pressing optical fingerprint technology is adopted. It has the characteristics of low power consumption, high sensitivity and high signal-to-noise ratio. Its advanced adaptive fingerprint recognition algorithm can automatically check the image quality in real time, automatically locate the fingerprint image region, and automatically optimize the image quality intelligently, supporting small area recognition; It can realize the two-way input and comparison of fingerprints, and perfectly analyze the touch and incomplete fingerprints in various dry and wet environments. Dry/wet/rough fingers have good imaging quality, suitable for a wide range of people. Comply with FBI PIV-071006, Mobile ID FAP 20 standard.

Supports ISO/IEC 7816 contact and 13.56 MHz contactless smart cards and ISO/IEC 7816 standard SAM cards, ISO18092 NFC protocol, USB TYPE A interface data cable, CCID low-level protocol, general PC/SC dynamic library, This multi-function device of international standard protocol can be easily connected to PC and mobile portable terminal. It is widely used in various information security fields such as secure identity authentication, PKI key authentication, fingerprint data collection, digital signature authentication, identity certificate issuance, etc.

Features

- USB2.0, PC/SC, CCID Compliant
- Support ISO-7816, 1/2/3 T=0 and T=1、Class A 、 B 、 C
- Support ISO-14443 Type A 、 Type B 、 Type C 、 ISO18092
- High quality fingerprint image: fingerprint image dynamic range of more than 200, image without distortion
- Dynamic fingerprint detection: dynamic detection of valid fingerprint image information, accurate cutting fingerprint image
- High speed image capture: image frame rate up to 30 frames/SEC
- Compatible with international fingerprint collection standards: single finger plane collection
- Certification to follow: FBI PIV-071006, Mobile ID FAP 20
- The fingerprint part can be customized to Suprema BM-SLIM2

Specifications

Basic Parameters	Host Interface	USB 2.0 CCID (Compliant USB 1.1 and 3.0)
	Communication Rate	12Mbps(USB 2.0 Full speed)
	Firmware Update	Support
	Power	USB Bus Power Supply (5V/2A)
	Contact	5V, 3V and 1.8V, ISO/IEC 7816 Class A/B/C

		• UP to 600 kbps (Depends on Card Chip type) • TA1=97
		Clock Frequencies up to 5 MHz ID-1 Standard Size Contact Card Support 6Pin and 8Pin Smart Card
	Contactless	ISO 14443 Part 1~4 ISO 18092 Frequencies: 13.56MHZ Card Communication Rate Up to 848 kbps MIFARE™ (Classic, Ultralight, Ultralight C, MIFARE PLUS, DESFire, DESFire EV1 2/4/8k) Cards FeliCa™, Calypso, CD21, NFC Forum Tag types 1/2/3/4, Topaz512, NTAG424 DNA, NTAG413 DNA Tags Type A & B & C CPU Cards
Fingerprint Scanner	Image Resolution	500DPI±1%
	Image Size	400 x 300 pixels
	Acquisition Window Area	16.4mm x 21.1mm
	Acquisition Area	15.24mm x 20.32mm
	Image Dynamic Range	≥210 Scale
	Image Gray Scale	8 bit/256 Scale
	Image Frame Rate	30 frame/Sec
	Aberration Rate	≤1%
	Sensor Type	Optical
	Image Quality Standards	FBI PIV-071006 / Mobile ID FAP20
	SDK Platform	C++, JAVA
	Operating System	Windows 7, Android 4.0 and above
Physical parameters	Customization	Suprema BM-SLIM2 Module is Optional
	Weight (g)	430g
	Status Indication	LED
	Power Supply Mode	USB Bus Power Supply
	Contact Card Type	ID1 Card Holder (Optional Landing Type)
	USB Line	Type A USB, 1.5 meter
Environment	Dimensions (L * W * H)	130 * 90 * 52mm
	Operating	-10 to 70°C

	Temperature (°C)	
	Storage Temperature (°C)	-20 to 85°C
	Operating Humidity	Up to 95% RH non-condensing
Standard	Standard Compliance	ISO-7816 Class A, B, C Standard
		ISO 14443 Type A, B, C Standard
		CE, ROHS
		PC/SC Standard
		USB 2.0 Standard
		CCID Standard
	API	PC/SC Lite / WINS CARD API

Picture

