



Feigete Intelligent Technology Co.,Limited

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- ✧ Exquisite structure: 75x32x21.6mm ultra-thin structural design.;
- ✧ Clear images: Equipped with residual fingerprint suppression function, capable of capturing high-definition fingerprint images;
- ✧ Efficient capture: Utilizing TFT distortion-free fingerprint imaging technology for fast capture speed;
- ✧ Authoritative certification: Compliant with the U.S. FBI PIV Mobile ID FAP20;
- ✧ International standards: Compliant with ISO19794-2, ISO19794-4, ANSI378, WSQ, and other international standards ;
- ✧ Simple development: Standard USB interface, providing SDK source code

Model No: FR503

FAP20 Biometric Fingerprint Reader



Communication Interface+C5:E22	USB1.1/2.0
Supply Voltage	5V (typical value), with a range of 4.2V to 5.5V
Operating Current	40mA (typical value), peak current: 90mA.
Sensor Types	LTPS TFT FAP20 standard; DLC coating providing 20N @ 9H per ASTM D3363-00scratch resistant;
Connectivity/Communication	Wired, USB-A
Live detection	Support live finger detection
Dimension	59.1x32x16.6mm
Acquisition Window	15.24 x 20.32mm
Image Size	300*400 pixel
Image Resolution	500DPI
Distortion	< 0.1 %
Gray Level	8-bit 256 levels
Gray Level Dynamic Range	150
Acquisition Time	15 frames per second
Matching Method	matching mode (1:1)Search Mode (1: N)
On-chip fingerprint template matching	support on-chip fingerprint template matching for 1:1 and 1:N verification
Response Time	1:N match < 1s
FAR	< 0.01 %
FRR	< 0.5 %
Electrostatic Discharge (ESD) Rating	Contact discharge: ±8KV, Air discharge: ±15KV
Communication	Windows; Android; Linux; Embedded
SDK	Android SDK(Java/Kotlin) compatible with android OS versions from 10 onward,windows7 and above. Net framework 4.0+, and Linux with complete English documentation and sample integration guide.
International Standards	Compliant with ISO19794-2, ISO19794-4, ANSI378, WSQ,
Compliance/Certificates	ISO19794-2; FBI PIV,CE
Environment Durability	IP65(Dust and water resistant)
Operating Temperature	-10°C — +60°C
Storage	-40°C — +60°C
Operating Humidity	< 90%R.H (Non-Condensing)
Storage Humidity	0~95% R.H
Accessories	USB fingerprint scanner; USB-A(Female)to USB-C(Male)Otg Adapter as option
Brand	SFT or Customized, free SDK for secondary development