suprema
BioMini Slim
Slim USB Fingerprint Scanner

Kimaldi

Reliable Capturing Performance Under Direct Sunlight Up To 100,000 Lux
Advanced Live Finger Detection (LFD) Technology
FBI PIV and Mobile ID FAP20 Certified Image Quality
Rugged IP65 Grade Dust and Waterproof Form Factor
Supporting Android Platforms

| **BioMini Slim** | BioMini Slim has specially been designed to provide a high level security solution for PC based identity access management solutions and android based mobile platforms. With IP65 grade dust and waterproof form factor, BioMini Slim provides a sleek ergonomic design with the latest 500dpi slim optical sensor, which boasts a large platen size for easy and reliable fingerprints capturing as well as advanced LFD (Live Finger Detection) technology. BioMini Slim maintains the highest standards and has received both FBI-PIV and mobile ID FAP20 certifications which enable the users to capture any types of fingerprints even under the direct sunlight environment. Combining with its comprehensive SDK solution, BioMini Slim offers superior hardware and software compatibilities which could be an ideal platform for developers.

Kimaldi
www.kimaldi.com

BioMini Slim	SFU-S20 (OEM Module)

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BioMini Slim Features

FBI
- FBI PIV/FIPS 201 and FBI Mobile ID FAP20 certificates
- NIST certified interoperable image & template format standards (ANSI-378/ISO 19794-2, ISO 19794-4)
- Image Compression Standard (WSQ)

Live Finger
- Advanced Live Finger Detection (LFD) Technology

- World's best performing fingerprint algorithm
  : Top results in NIST MINEX tests and FVC
- FIPS 201 certified template extractor and matcher
- Fast matching speed : 100,000 match / second (with Intel Core2Duo)

USB Plug & Play
- USB 2.0 high speed interface
- Supports multiple device handling
- Automatic finger placement detection
- Ergonomic Indication LED

500DPI
- 500 dpi optical fingerprint sensor
- Rugged IP65 dust and waterproof form factor
- Large Platen Size: 0.71" X 1.0"(18.0mm x 25.4mm) (FAP20 standard: 0.6" x 0.8")

- BioMini SDK for easy application software development
- Supports Android / MS Windows / Linux
- Supports multiple programming languages
  : VC++, VB, VB.NET, C#, Java
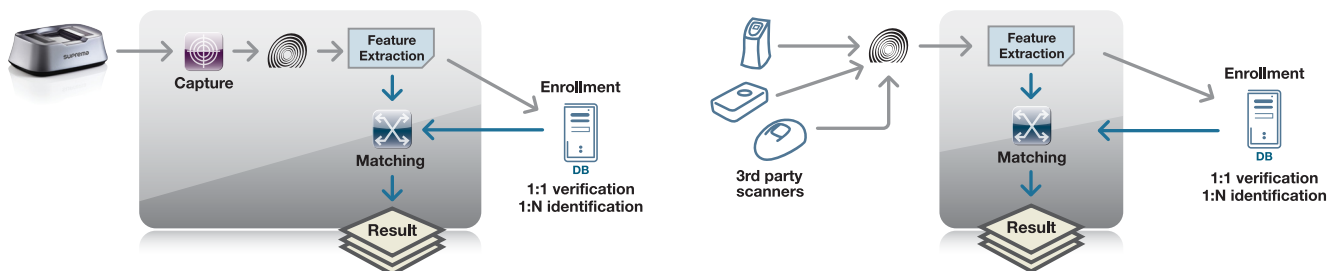- Multi-threaded code design fully utilizing multi-core CPU power

Sun Light
- Works under direct sunlight

BioMini Slim Specifications

Fingerprint Sensor	Optical
Resolution	500 dpi / 256 gray
Platen Size	18.0mm x 25.4mm (0.71" X 1.0")
Sensing Area	17.0mm x 25.0mm (0.67" x 0.99")
Image Size	320 x 480 pixels
Interface	USB 2.0 High Speed
O/S	Android 4.1(Jelly Bean) or above, Windows / Linux
Operating Temp.	-10 ~ 50℃
Humidity	90% or less RH, noncondensing
Certification	CE, FCC, KCC, UL, WHQL, USB-IF, WEEE
Size (W x L x H)	BioMini Slim : 82.0mm x 57.7mm x 27.0mm SFU-S20 : 66.5mm x 40.0mm x 20.8mm

BioMini SDK Specifications

Template Size	1024Bytes (Configurable)
Enrollment Time	< 0.1 second
Verification Time	< 0.1 second
Identification Time	100,000 matches / second (with Intel Core2Duo)
Programming Languages	VC, VB, C#, VB.NET, JAVA
Database	Microsoft Access (Sample)
Encryption	256 bit AES
Operating System	Android 4.1(Jelly Bean) or above Windows 8, 7, Vista, XP, Server 2003/2008 Linux(Ubuntu, Devian, Fedora, OpenSUSE, Cent OS)

System Configuration

Capture → Feature Extraction → Enrollment
Matching
Result
DB
1:1 verification
1:N identification

3rd party scanners → Feature Extraction → Enrollment
Matching
Result
DB
1:1 verification
1:N identification