BioMini Combo
USB Fingerprint & Smartcard Reader

| **BioMini Combo** | BioMini Combo is designed to provide two-factor authentication solutions combining fingerprint, contact/contactless smartcards and NFC. In addition to fingerprint authentication, the scanner also supports various RF standards including contact/contactless smartcards. Moreover, advanced Live Finger Detection technology enhances security level and makes BioMini Combo a secure multi-modal authentication platform. With the recently added Android support, BioMini Combo is now compatible with wide range of Android-based mobile devices including smartphones, tablets and PDAs. Android compatibility will allow users simpler operation without PC and provides greater versatility with custom-made Android apps for ID projects including electronic ID and e-government applications.

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FEATURES

- Two factor authentication security solutions for authentication purposes.

- Android support
  - Smart card SDK for Android
  - Versatile solution with custom-made Android apps

FBI
- FBI PIV and FBI Mobile ID FAP20 certificates
- Image compression standard: WSQ

Multi Dynamic Range
- Capturing high-quality fingerprint images even when the finger is dry & wet.
- Operates under direct sunlight up to 100,000 LUX

- Live Fingerprint Detection(LFD) Technology
  - Distinguishes fake fingerprints made from various materials including clay, rubber, silicon, glue, paper, film and more

- Interface with NFC-enabled devices
- ISO/IEC 14443 A&B(NFC), Mifare, Felica
- Compliant with ISO 7816 Contact Smartcard and EMV 2000 version 4.1
- Transmission rate : 2 Kbps to 500 kbps
- Supports 5V (55mA), 3V (50mA), 1.8V (20mA) Smart Card
- Supports SAM Slot (Optional)

SPECIFICATIONS

Sensor	Image Quality Standards	FBI PIV / FBI Mobile ID FAP20
	Live Finger Detection	O
	Sensor Type	Optical
	Resolution	500 ppi
	Gray Scale	256 level
	Platen Size (W x L mm)	18.0 x 25.4
	Sensing Area (W x H mm)	16.2 x 24.3
	Image Size (W x H pixels)	320 x 480
H/W	Interface	USB 2.0 Hight Speed
	Operating Temperature(℃)	-10~50℃
	Operating humidity	10 ~ 90% RH
	Ingress Protection	IP65(Sensor Surface)
	Dimensions (W x L x Hmm)	95.7 x 114.8 x 52.6
	Weight (Kg)	0.28
S/W	Windows	Windows XP, Vista, 7, 8, 8.1, 10 32/64bit
	Linux	Ubuntu, Debian, Fedora, OpenSUSE, Cent OS 32/64bit
	Android Android 4.1(Jelly Bean)and Above	O
	Image Format	RAW, BMP, WSQ, ISO 19794-4
	Template Type	Suprema, ISO19794-2, ANSI-378
Certification	CE	O
	FCC	O
	KC	O
	UL / CB	O
	IEC62471	X
	WEEE	X
	WHQL	O

* Available Variants

Contact   Contactless   Dual

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