

PB1000

Fingerprint Scanner



UIDAI
L1 Certified



MICRO USB



USB A



USB C

Product Description

The PB1000 is a high quality Fingerprint Scanner, designed for Aadhaar based authentication applications including e-KYC, BHIM Aadhaar Pay and other enterprise biometric applications.

The PB1000 Fingerprint Scanner utilizes advanced thin optical imaging technology for generating superior quality fingerprint images. The user needs to simply place his/her finger on the blue illuminated platen and the onboard electronics quickly constructs a high quality fingerprint image.

The fingerprint recognition engine has an unmatched ability to enhance the fingerprint image and render superior performance even in the most constrained dermatological and environmental conditions.

The PB1000 has been built in compliance with UIDAI's specifications and is L1 Certified.

Target Applications

BHIM Aadhaar Pay

e-KYC

- Banking and Financial Services
- Mutual Funds

Aadhaar Authentication

- DBT schemes
- ABAS

Features

- Compact Size
- Compatible with Android and Windows
- High Quality Fingerprint Image
- Counterfeit Finger Detection
- Tamper detection with indicator (optional)
- Low power consumption
- Blue illumination
- Latent Finger rejection
- Available with USB-A, USB-C and MicroUSB cable options



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PB1000

TECHNICAL SPECIFICATION



PB 1000

Interface	USB 2.0 Full Speed
Operating Systems	Android 6 or higher, Windows 10 or higher
Sensor Resolution	508 DPI
Platen Area	18.7 x 13.4 mm
Active Platen Area	18 x 12.8 mm
Image Size	256 x 360
Grayscale	256 Levels
Surface Coating	High-durability top surface 9H Hardness
LED Indicator	Multicolour LED for user-friendly operation

Mechanical

Size (LxWxH)	65 X 41 X 20.80 mm
Weight	45g

Security Features

PCH	Renesas
Device Level Encryption	Built-in
Security Algorithms	Symmetric : AES, 3DES Asymmetric : RSA, ECC
Other Support Features	TRNG
	Hash value generation : SHA1, SHA224, SHA256
Tamper Protection	Yes

Controller

MCU	120MHz
Flash Memory	1024KB
RAM	640KB

Operating Conditions

Humidity	10-90% relative humidity (non-condensing)
Temperature	0°C to 45°C
ESD Resistance	IEC61000-4-2 Air Discharge +/- 9KV
Power Rating	5V, 140mA (scanning) 60mA (standby)
Ingress Protection	IP 65
Certification	BIS, STQC Certified, CE, RoHS Compliant



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