

# 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
- 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

## 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)

