

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 |

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) |



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