SecuGen Provides the Highest Quality in Fingerprint Biometrics at Affordable Prices

**Durable**

With a virtually indestructible sensor prism, the SecuGen sensor is extremely rugged. SecuGen sensors are designed to be strong for dependable and consistent scanning even outdoors and under harsh or high traffic environments.

**Accurate**

SecuGen sensors are very accurate thanks to a patented optic design that produces high quality images for greater precision, less false rejections/false acceptances, and better overall performance compared to competing fingerprint sensors.

**Maintenance-free**

Unlike semiconductor-based sensors and other optical sensors, SecuGen sensors are made with hardened glass that needs no coatings or special protection. SecuGen sensors resist scratches, ESD, corrosion, and other stresses and can be easily wiped clean without fear of damage.

**Cost-effective**

SecuGen designs, develops, and manufactures its own fingerprint sensors that are built to last and deliver solid performance for years, making SecuGen sensors the most cost effective choice.
Technical Specifications

**Description**

Complete fingerprint authentication system with serial interface

**Typical Applications**

Point of Sale (POS), Time & Attendance, Any fingerprint application requiring a serial interface

**Fingerprint Reader**

- **Optical Sensor**: SecuGen SDA04P™
- **Image Resolution / Size**: 500 DPI / 260 x 300 pixels
- **Platen Size / Eff. Sensing Area**: 16.1 x 18.2 mm / 13.2 x 15.2 mm
- **Light Source / Typical Lifetime**: LED / 60,000 hours
- **Fingerprint Capture Speed**: 0.2 ~ 0.5 second with Smart Capture
- **Supported Biometric Standards**: INCITS 378, ISO/IEC 19794-2, 19794-4
- **Auto-On™ & Smart Capture™**: Yes

**General**

- **Dimensions (W x L x H)**: 88 x 140 x 67 mm
- **Operating Temp. / Humidity**: 0° ~ 55° C / 10 ~ 90% RH
- **Interface**: USB 1.1 Full-Speed, USB 2.0 Hi-Speed
- **Supply Voltage**: 5 V DC (via USB)
- **Current Consumption (max)**: 250 mA
- **Warranty**: One year limited
- **Compliance / Certification**: FCC, CE, KCC, RoHS
- **Supported Operating Systems**: Windows 10, 8.1, 8, 7

**Additional Features**

- **CPU / Flash**: 333 MHz ARM / 128 MB
- **Storage Capacity**: 10,000 Users
- **Embedded Algorithms**:
  - Template Extractor, 1:1 Matcher,
  - 1:N Matching Engine (SecuSearch™)
- **Fingerprint Capture Speed**:
  - < 0.1 second (1:1)
  - < 0.2 second (1:N)
- **Communication Speed (max)**: 921.6 kbps

**Smart Card Reader**

- **Card Reader**: HID OMNIKEY® 3121
- **Card Standards**: ISO 7816, EMV2 2000 Level 1
- **Card Size**: ID-1 (full size)
- **Smart Card Clock Freq**: Up to 8MHz
- **Supported Card Types**: 5V, 3V, 1.8V, ISO 7816 Class A, AB, C
- **Supported APIs**: PC/SC driver (ready for 2.01), CT-API, Synchronous-API, OCF

**SecuGen**

Founded in 1998, SecuGen is a leading provider of advanced optical fingerprint recognition technology for physical and information security. Our high quality biometric sensors have been used all around the world in diverse areas such as government, finance, health care, law enforcement, education, retail, manufacturing, and transportation.

www.secugen.com

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