SDA04P[™] SDA04PX[™] SDA04PIV[™]

Fingerprint Sensor OEM Modules

From the world's leading supplier of advanced, optical fingerprint technology for embedded systems...

SecuGen's SDA fingerprint sensor OEM modules are made with the industry's most rugged and accurate optical sensors based on patented SEIR™ technology.



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 an ultra-compact, 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.

Since 1999 SecuGen fingerprint technology has been used in over 100 countries around the world. Our sensors have been integrated with a wide variety of security applications including access control and labor tracking systems, door locks, and kiosks.

SecuGen

We continually research and develop new and improved technologies and are pleased to offer our latest and best in the SDA line of fingerprint sensor OEM modules.

Technical Specifications

SDA04P, SDA04PX

SDA04PIV

Developer Kits

Each fingerprint sensor OEM module includes:

- Optic Module
- Board with CPU, Memory & Embedded Algorithms
- FPC Cable



FBI Certified

Each SDA Developer Kit includes:

- Choice of one SDA OEM module
- C9 and RS232 cables
- DB9 interface board
- 3.3V DC power supply
- CD with software and documentation
- One year of support

Optic Module

Optic Module Image Resolution / Size Sensing Area / Platen Size Fingerprint Capture Time Light Source / Typical Lifetime Dimensions / Weight SDOPP03P

500 DPI / 260 x 300 pixels
13.2 x 15.2 mm / 16.1 x 18.2 mm
0.2 ~ 0.5 second with Smart Capture
LED / 60,000 hours
21 x 32 x 62 mm / 32 g

SDOPP04P

508 DPI / 258 x 336 pixels
12.9 x 16.8 mm / 16.1 x 18.2 mm
0.2 ~ 0.7 second with Smart Capture
LED / 60,000 hours
21 x 32 x 62 mm / 32 q

Description

Features

The Developer Kit provides the hardware, software, and support needed to help accelerate the design and integration of SecuGen's OEM module into stand-alone or networked devices.

APIs and data conversion modules are

provided in the Developer Kit to expand

the capabilities of your biometric

Board

CPU / Flash Memory Storage Capacity Minutiae Extraction Time Matching Time (1:1) Matching Time (1:N) MINEX Compliant Algorithms Fingerprint Template Communication Speed (max) External Interface 533 MHz ARM / 128 MB 10,000 users (1:1 or 1:N)

< 0.3 second < 0.1 second < 0.2 second

921,600 bps

59 x 43 x 8 mm / 16 q

533 MHz ARM / 128 MB 10,000 users (1:1 or 1:N) < 0.9 second

< 0.1 second

Yes

SecuGen, INCITS 378, ISO 19794-2

921,600 bps

RS232 Serial, Wiegand, GPIO,

CMOS Level Serial 59 x 43 x 8 mm / 16 g

Verify or identify authorized users by their fingerprints

Register and manage user profiles

system with these functions:

- Interface with PC and SecuGen USB fingerprint readers
- Adjust imaging parameters, quality thresholds, and security levels
- Test all functions

Dimensions / Weight

Other

Supply Voltage
Current Consumption
Operating Temperature
Operating Humidity
Auto-On™ & Smart Capture™
Compliance / Certification
Optional Water Resistance (WR)

3.3 V DC

120 mA (idle), 400 mA (operating)

SecuGen, INCITS 378, ISO 19794-2

RS232 Serial (SDA04P only), Wiegand (SDA04P

only), GPIO (SDA04P only), CMOS Level Serial

-20° ~ 65° C

90% or less RH, noncondensing

Yes RoHS

Water-resistant optic module

3.3 V DC

120 mA (idle), 400 mA (operating)

-20° ~ 65° C

90% or less RH, noncondensing

Yes

RoHS, FIPS 201 / FBI (PIV Single Finger)



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