

SDA03M™

SDA04M™

SDA04™

Fingerprint Sensor OEM Modules

From the world's leading supplier of fingerprint sensors for embedded systems, SecuGen proudly presents the SDA line of next-generation fingerprint sensor OEM modules.

Made with the industry's most rugged and accurate optical sensors based on patented SEIR™ technology, SecuGen sensors provide the highest quality in fingerprint biometrics at affordable prices.



FBI Certified

SecuGen is known for high quality fingerprint technology that is...

Durable

SecuGen fingerprint sensors are extremely rugged and feature a virtually indestructible sensor prism. From the sensor surface to the internal lens and electronic components, SecuGen sensors are designed to be strong and dependable to deliver consistent performance in indoor, outdoor, hot, cold and other harsh environments.

Accurate

SecuGen sensors are very accurate thanks to a patented optic design that produces distortion-free images from which data points are extracted for matching. Higher quality images mean greater precision, less false rejection and acceptance, and better overall performance.

Maintenance-free

Unlike semiconductor-based sensors and other optical sensors in the market, SecuGen sensors are made with a hard quartz-like material that needs no coatings but resists scratches, ESD, corrosion and other stresses. The optic parts are tightly assembled so that if the sensors are ever dropped, there is no need for recalibration.

Cost-effective

SecuGen designs, develops and manufactures its own fingerprint sensors that are built to last. SecuGen guarantees the best product quality in the industry, which translates into savings by eliminating costly replacements and losses from system downtime.

Since 1999 SecuGen fingerprint technology has been used in over 70 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.

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

SDA03M™

SDA04M™

SDA04™

SDA OEM Module includes

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



FBI Certified

Optical

Optic Module	SDOPP03M
Image Resolution	500 DPI
Image Size	260 x 300 pixels
Platen Size / Sensing Area	16.1 x 18.2 mm / 12.7 x 14.9 mm
Image Grayscale	256 shades (8-bit gray level)
Distortion (nonlinear)	< 0.1 %
Sensing Prism Hardness	750 Hk (6.8 Mohs)
Light Source	Red LED
Ambient Light Condition	5,000 Lux
Lifetime (typical)	60,000 hours

Optic Module	SDOPP03M
Image Resolution	500 DPI
Image Size	260 x 300 pixels
Platen Size / Sensing Area	16.1 x 18.2 mm / 12.7 x 14.9 mm
Image Grayscale	256 shades (8-bit gray level)
Distortion (nonlinear)	< 0.1 %
Sensing Prism Hardness	750 Hk (6.8 Mohs)
Light Source	Red LED
Ambient Light Condition	5,000 Lux
Lifetime (typical)	60,000 hours

Optic Module	SDOPP04
Image Resolution	500 DPI
Image Size	258 x 336 pixels
Platen Size / Sensing Area	16.1 x 18.2 mm / 12.9 x 16.8 mm
Image Grayscale	256 shades (8-bit gray level)
Distortion (nonlinear)	0 %
Sensing Prism Hardness	750 Hk (6.8 Mohs)
Light Source	Red LED
Ambient Light Condition	5,000 Lux
Lifetime (typical)	60,000 hours

Board

Model	SDPB03
CPU / Flash Memory	400 MHz ARM / 32 MB
User Capacity	3,000
Matching Speed (1:1 / 1:N)	0.1 / 0.2 seconds
Fingerprint Template	SecuGen & ANSI INCITS 378
Host Communication	Serial (RS 232, TTL)
Communication Speed (max)	460,800 bps
External Interface	Weigand out, GPIO in, GPIO out

Model	SDPB04
CPU / Flash Memory	533 MHz ARM / 128 MB
User Capacity	10,000
Matching Speed (1:1 / 1:N)	0.1 / 0.2 seconds
Fingerprint Template	SecuGen & ANSI INCITS 378
Host Communication	Serial (RS 232, TTL)
Communication Speed (max)	921,600 bps
External Interface	Weigand out, GPIO in, GPIO out

Model	SDPB04
CPU / Flash Memory	533 MHz ARM / 128 MB
User Capacity	10,000
Matching Speed (1:1 / 1:N)	0.1 / 0.2 seconds
Fingerprint Template	SecuGen & ANSI INCITS 378
Host Communication	Serial (RS 232, TTL)
Communication Speed (max)	921,600 bps
External Interface	Weigand out, GPIO in, GPIO out

General

Power Supply	3.3 V DC
Operating Temperature	-20° to 65° C
Operating Humidity	90% RH or less
Dimensions (sensor / board)	21 x 32 x 62 / 59 x 43 x 8 mm
ESD Tolerance	13 kV
Auto-On™	Yes
Compliance	RoHS

Power Supply	3.3 V DC
Operating Temperature	-20° to 65° C
Operating Humidity	90% RH or less
Dimensions (sensor / board)	21 x 32 x 62 / 59 x 43 x 8 mm
ESD Tolerance	13 kV
Auto-On™	Yes
Compliance	RoHS, NIST MINEX Compliant Algorithms

Power Supply	3.3 V DC
Operating Temperature	-20° to 65° C
Operating Humidity	90% RH or less
Dimensions (sensor / board)	21 x 32 x 62 / 59 x 43 x 8 mm
ESD Tolerance	13 kV
Auto-On™	Yes
Compliance	RoHS, FBI Certified PIV Single Finger Capture Device, GSA FIPS 201 APL, NIST MINEX Compliant Algorithms

SDA OEM Module Developer Kit includes

Hardware, software and support to accelerate the design and integration of SDAs into stand-alone or networked devices. APIs and data conversion modules expand the capabilities of your biometric system with these functions:

- Verify or identify users
- Register and manage user profiles
- Interface with PC & SecuGen USB readers
- Adjust imaging parameters, quality thresholds, and security levels
- Test all functions

Open The World With Your Fingertip!® Visit our web site for more information at www.secugen.com.

