

SDA04™

FBI Certified, FIPS 201 / PIV Compliant Standalone Fingerprint Recognition System

Specifications

533 MHz ARM, 128 MB Flash
Capacity: 10,000 users
1:1 Matching Speed: 0.1 seconds
1:N Matching Speed: 0.2 seconds
Max Communication Speed: 921600 bps
Host Communication: Serial (RS 232, TTL), USB 2.0 high speed
External Interface: Weigand out, GPIO in, GPIO out
Power: 3.3V DC, Current Consumption: 140-320 mA
Resolution: 500 DPI
Image Size: 258 x 336 pixels
Sensing Area: 12.9 x 16.8 mm
Temperature Tolerance: - 20° to 65°C
Humidity Tolerance: 90% RH or less
ESD Tolerance: > 15 kV
Platen Hardness: 750 Hk (~6.8 Mohs)
Dimensions: 21 x 32 x 62 mm (sensor), 59 x 43 x 8 mm (board)



SecuGen Fingerprint Sensor Modules

- Are standalone fingerprint recognition systems with optic module and PC board with memory & CPU with embedded algorithms for fingerprint capture, enrollment, storage and 1:1 or 1:N matching for verification or identification
- Are used around the world by Original Equipment Manufacturers (OEM) and developers for integration with a variety of security, access control, time & attendance, ATM, kiosk, PC peripherals and many other products
- Are made with the industry's most rugged and advanced optical sensors using patented SEIR™ technology to give you the highest quality in fingerprint biometrics

SecuGen is Known for High Quality Fingerprint Technology

Durable

SecuGen fingerprint sensors are very 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 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 stress. 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, which 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.

Developer Kits

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

- Register, update and delete user profiles
- Verify or identify users
- Manage user database
- Adjust imaging, security levels, quality threshold, etc.
- Test all functions
- Interface with PC & SecuGen USB readers

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