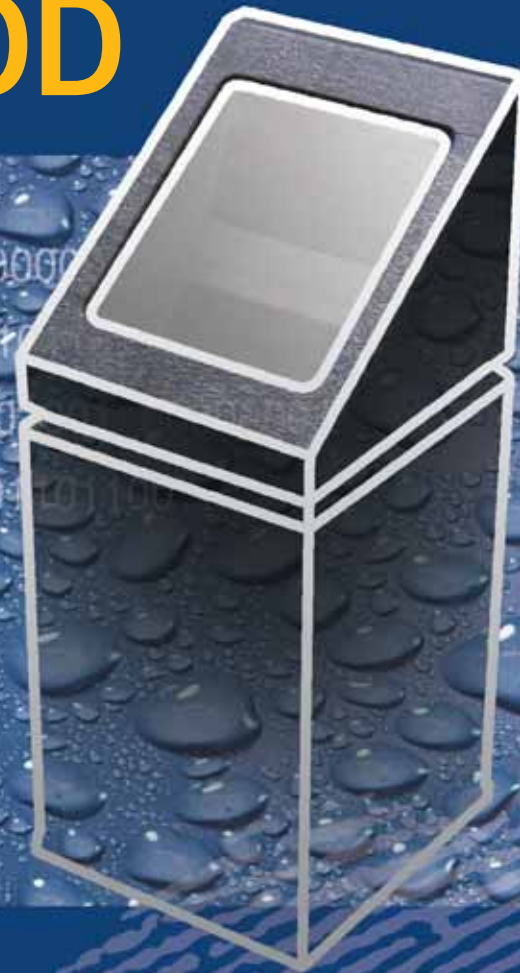# *Waterproof Standalone Fingerprint Module for Outdoor*

SFM3030-OD

SFM3030-OD is a standalone fingerprint identification module for outdoor applications. The front side of optical sensor is designed to be IP65 rated against rain and dust. Combined with a wide temperature range and solid sensor surface, SFM3030-OD is an ideal solution for rugged and durable biometric products.

Features

- Rugged optical fingerprint sensor
  - IP65 rated waterproof front side
  - Solid and scratch-free sensor surface
  - High quality fingerprint image for both dry and wet fingers
- Award winning fingerprint algorithm (No 1 in FVC2004)
- Industry's fastest 1:1 and 1:N matching speed
- Low power consumption and fast power-on time
- Serial interface with simple protocol
- User-configurable 8 port digital I/O
- Easy template distribution for network applications

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Specifications

CPU	400 MHz DSP
Flash memory	1 MB / 4 MB (extendible up to 4 MB upon request)
EER	< 0.1%
Enrollment time	800 msec
1:1 Verification time	800 msec
1:1000 identification time *	970 msec
Template size	256 ~ 384 Bytes (configurable, 384 Bytes default)
Template capacity	1,900 at 1 MB flash (9,500 at 4 MB flash)
Host communication	Asynchronous serial, CMOS level (3.3V) 9600/19200/38400/57600/115200 bps
External I/O	8 ports, configurable digital I/O. Easy to configure I/O events and signal patterns. 26bit wiegand output is supported in 3.3V level.
Encryption	256 bit AES (fingerprint data protection)
Supply voltage	3.3 Vdc regulated
Operating temparature	-20 ~ 70°C
Sensor type	Optical
Resolution	500 (dpi)
Sensing area	15.9 x 17.9 (mm)
Image size	288 x 288 (pixel)
IP rating **	IP65
Dimension (Main board)	55mm x 40mm x 8mm (WxLxH)
Dimension (Sensor)	21mm x 23mm x 54mm (WxLxH)

* average 1:1000 genuine identification time including feature extraction time
** apply to the top front side of optical sensor

Functions

- Enrollment / 1:1 verification / 1:N identification
- User data management
- System parameter configuration

Applications

• Access control	• Time and attendance
• Door lock	• POS
• Safes & Vaults	• ATM

Evaluation Kit

SFM3030-OD evaluation kit allows a user to evaluate the module's functionality quickly and easily. The evaluation kit also provides software tools, SDK and technical documents to help customers in application development.

Contents:
- SFM3030-OD
- SFM evaluation board
- SFM SDK
- PC interface program with source code
- Technical documents

For sales and inquiries, please contact:

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Suprema Inc.

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