

suprema

# SFM3000/3500

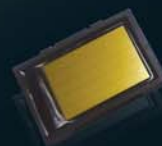
Standalone OEM Fingerprint Module



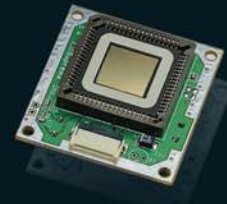
**OP, OD**  
(Optical Sensor)



**FC**  
(Atmel's FingerChip)



**TC1, TC2**  
(UPEK's TouchChip)



**FL**  
(AuthenTec's AF-S2)

| **SFM3000/3500** | SFM3000/3500 are high performance standalone fingerprint modules equipped with award winning fingerprint recognition algorithm. SFM3000 is a cost effective module with powerful fingerprint recognition engine while SFM3500 is a high-end module added with versatile external interface and administrator and log management functions.



#### General Specifications

	SFM3000 series	SFM3500 series
CPU	400 MHz DSP	400 MHz DSP
FLASH	1MB flash (4MB optional)	4MB
EER (Equal error rate)	< 0.1%	< 0.1%
Enrollment time	1 sec	1 sec
Verification time	1 sec	1 sec
Template size	384 bytes (reducible to 256 bytes)	384 bytes (reducible to 256 bytes)
Template capacity	1900 at 1MB flash (9500 at 4MB flash)	9000 at 4MB flash
Template format	Suprema or ISO19794-2 standard	Suprema or ISO19794-2 standard
Host communication	1 Async serial (3.3V CMOS level)	1 RS232 or RS422/485
Aux. communication	-	1 RS232 or TTL level
Wiegand interface	-	input 1 port & output 1 port
Programmable I/O	8 ports (# of input and output configurable)	3 LED / 3 Input / 3 Output
Log capacity	-	12,800 events
Encryption	256 bit AES	256 bit AES
Supply voltage	3.3 Vdc (regulated)	5 Vdc (regulated)
Main board size	55 x 40 x 8 mm (L x W x H)	63 x 43 x 10 mm (L x W x H)

#### Model Specifications

Model	SFM3020-OP SFM3520-OP	SFM3030-OD SFM3530-OD	SFM3010-FC SFM3510-FC	SFM3050-TC1 SFM3550-TC1	SFM3050-TC2 SFM3550-TC2	SFM3000-FL SFM3500-FL
Sensor type	Optical	Optical (waterproof)	Swipe type thermal	Capacitive	Capacitive	E-Field
Resolution(dpi)	500	500	500	508	508	250
Sensing area (mm)	16.0 x 19.0	16.0 x 18.0	14.2 x 0.4	12.8 x 18.0	10.4 x 14.4	13 x 13
Image size (pixel)	280 x 320	288 x 288	280 x 8	256 x 360	208 x 288	128 x 128

#### Applications

- \* Access control
- \* Door lock
- \* Safes & Vaults
- \* Time and attendance
- \* POS
- \* ATM

#### Evaluation Kit

SFM3000/3500 evaluation kit allows a user to evaluate SFM3000/3500 module's core functionality quickly and easily.

Contents:

- SFM3000/3500 module and sensor
- SFM evaluation board
- SFM SDK
- PC interface program with source code
- Technical documents

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