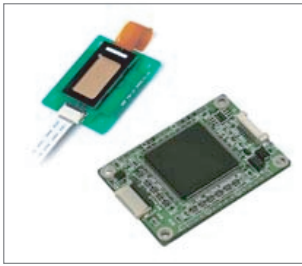
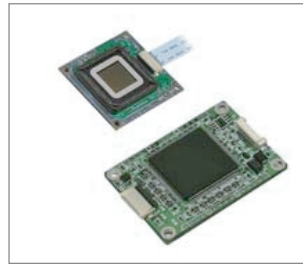


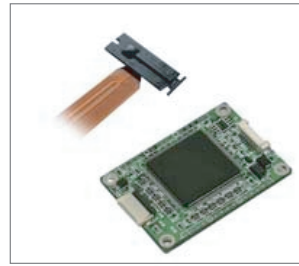
SFM3000-PR



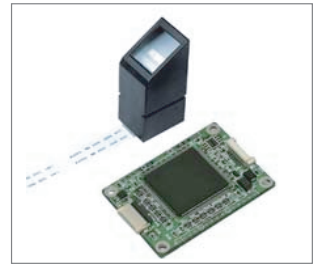
SFM3000-FL



SFM3010-FC



SFM3020-OP



SFM3000 series are new fingerprint modules containing Suprema's cutting-edge fingerprint solution running on high performance DSP.

Key Features

- World's most reliable fingerprint algorithm (1st rank in Fingerprint Verification Competition 2004)
- Fast 1:1 and 1:N matching speed (High performance DSP)
- Low power consumption and fast power-on time
- Serial interface with simple protocol
- User-configurable 8 port digital I/O
- Wiegand input & output interface (optional), RS422/RS485 interface (optional)
- Compatible with SFM1000 and SFM2000

Applications

- Access Control / Time and Attendance / Door Lock / Safe Lock / POS System / Smart Card, ATM

Specifications & Features

Item	SFM3000-PR	SFM3000-FL	SFM3010-FC	SFM3020-OP
CPU	400 MHz DSP			
Flash memory	1 MB (extendable up to 4 MB upon request)			
EER	< 0.1%			
Enrollment time	1 sec			
Verification time	1 sec			
Template size	384 Bytes			
Template capacity	1,900 at 1MB flash (9,500 at 4MB flash)			
Host communication	Asynchronous serial, CMOS level (3.3V)			
External I/O	8 ports, configurable digital I/O			
Encryption	256 bit AES			
Supply voltage	3.3 Vdc regulated			
Power consumption	170 mA (peak) / 95 mA (idle)	310 mA (peak) / 80 mA (idle)	110 mA (peak) / 50 mA (idle)	145 mA (peak) / 70 mA (idle)
Power-on time	< 100 msec			
Size	55(L) x 40(W) x 8(H) mm			
Sensor type	Pressure sensitive	E-Field	Swipe type thermal	Optical
Resolution	440 (dpi)	250 (dpi)	500 (dpi)	500 (dpi)
Sensing area	16.0 x 23.4 (mm)	13 x 13 (mm)	14.2 x 0.4 (mm)	16.0 x 19.0 (mm)
Image size	256 x 384 (pixel)	128 x 128 (pixel)	280 x 8 (pixel)	280 x 320 (pixel)
Features	SFM3000-PR	SFM3000-FL	SFM3010-FC	SFM3020-OP
	<ul style="list-style-type: none"> • Pressure sensitive fingerprint sensor • Effective for both dry and wet fingers • Arge sensing area containing 	<ul style="list-style-type: none"> • TruePrint technology • Reliable high quality fingerprint image • Impervious to contamination 	<ul style="list-style-type: none"> • 500 dpi resolution • Sweeping-type thermal fingerprint sensor • Low cost / small size • On-the-fly fingerprint image reconstruction 	<ul style="list-style-type: none"> • 500 dpi resolution • Solid sensor surface • High quality fingerprint image