

SM-609B Single Optical Fingerprint Embedded Module

>> OVERVIEW

Miaxis® Model SM-609B is an integrated optical fingerprint module with adopted advanced CMOS sensor technology, low power consumption&high-performance ARM Cortex-M4 core processor and FLASH etc chips.

The module allows standalone operation with on-board fingerprint image processing,template extraction,fingerprint matching (including 1: 1 and 1: N), template storage and other functions, ideal for various applications that require identity authentication.



>> SPECIFICATION

CPU	200MHz, Cortex-M4F
Flash memory	256KB(Expandable up to 512KB)
Module size(L x W x H)	46.1 x 20.4 x 21.7mm
Sensor type	Optical
Active platen area	12.8 x 14.4mm
Image size	256 x 288 pixel
Image resolution	500 dpi
Gray scale	4 bit
Enrollment time	≤750ms (finger image capture to template)
1:1 Verification time	≤400ms (feature extraction + 1:1 matching)
1:N Matching time	≤1s, N=128
Template size	256 bytes default
Fingerprint capacity	256 templates(Expandable)
ESD immunity	±8kV contact discharge ±15kV air discharge
Supply voltage	DC 3.8V-7.0V
Supply current	<85mA
Communication interface	UART
Operating temperature	-10°C ~ +50°C
Operating humidity	20%RH ~ 90%RH



500 dpi resolution



Work well with wet&dry finger



Durable optical sensor surface



Miaxis proprietary fingerprint algorithm



Touch wake-up function



Flexible security setting