

SM-621B V10 Single Optical Fingerprint Embedded Module

>> OVERVIEW

Miaxis® Model SM-621B V10 is a high cost-effective integrated optical fingerprint module equipped with powerful CPU and high quality optical sensor with advanced CMOS technology.

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.



>> SPECIFICATION

CPU	200MHz, Cortex-M4F
Flash memory	256KB(Expandable up to 1MB)
Module size(L x W x H)	55.0 x 22.0 x 24.5mm
Sensor type	Optical
Active platen area	12.8 x 15.2mm
Image size	256 x 304 pixel
Image resolution	500 dpi
Gray scale	4 bit
Enrollment time	≤350ms (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	<80mA
Communication interface	UART
Operating temperature	-10°C ~ +50°C
Operating humidity	20%RH ~ 90%RH



500 dpi resolution



Large image capture area



Durable optical sensor surface



Miaxis proprietary fingerprint algorithm



Flexible security setting