

SM-630 Integrated Fingerprint Verification Module

SM630 integrated fingerprint verification module is the latest release of Miaxis Biometrics Co., Ltd. It consists of optical fingerprint sensor, high performance DSP processor and Flash. It boasts of functions such as fingerprint enrollment, fingerprint deletion, fingerprint verification, fingerprint upload, fingerprint download, etc.



Product Features:

Strong Functions

Independently conduct the functions of fingerprint enrollment, image processing, minutiae extraction, templates storage, fingerprint verification (1:1) or fingerprint searching (1:N) under the command of HOST(PC or MCU).

- **Self-proprietary Intellectual Property**

Optical fingerprint collection device, module hardware and fingerprint algorithm are all self developed by Miaxis.

- **High Adaptation to Fingerprints**

When reading fingerprint images, it has self-adaptive parameter adjustment mechanism, which improves imaging quality for both dry and wet fingers. It can be applied to wider public.

- **Low Cost**

Module adopts Miaxis' optic fingerprint collection device, which dramatically lowers the overall cost.

- **Algorithm with Excellent Performance**

SM630 module algorithm is specially designed according to the image generation theory of the optic fingerprint collection device. It has excellent correction & tolerance to deformed and poor-quality fingerprint.

- **Easy to Use and Expand**

User does not have to have professional know-how in fingerprint verification. User can easily develop powerful fingerprint verification application systems based on the rich collection of controlling command provided by SM630 module. All the commands are simple, practical and easy for development.

- **Integrated Design**

Fingerprint processing components and fingerprint collection components are integrated in the same module. The size is small. And there are only 4 cables connecting with HOST, much easier for installation and use..

Product Specifications:

Fingerprint enrollment time	<250ms
Fingerprint search time	<1s (100 fingerprint, average value in test)
Resolutions	500DPI
Capacity	768 templates
FAR	<0.0001%
FRR	<0.01%
Supply power	4.3V~6V
Working current	<80mA
Peak current	<90mA
Communication interface	TTL
Communication Baud rate	57600bps
Working temperature	-10℃~+40℃
Working humidity	40%RH~85%RH (no dew)
Module dimension	60.0×21×25mm (L*W*H)

Product Application Area:

Fingerprint time attendance and access control
Fingerprint safety cabinet and fingerprint lock IC card system