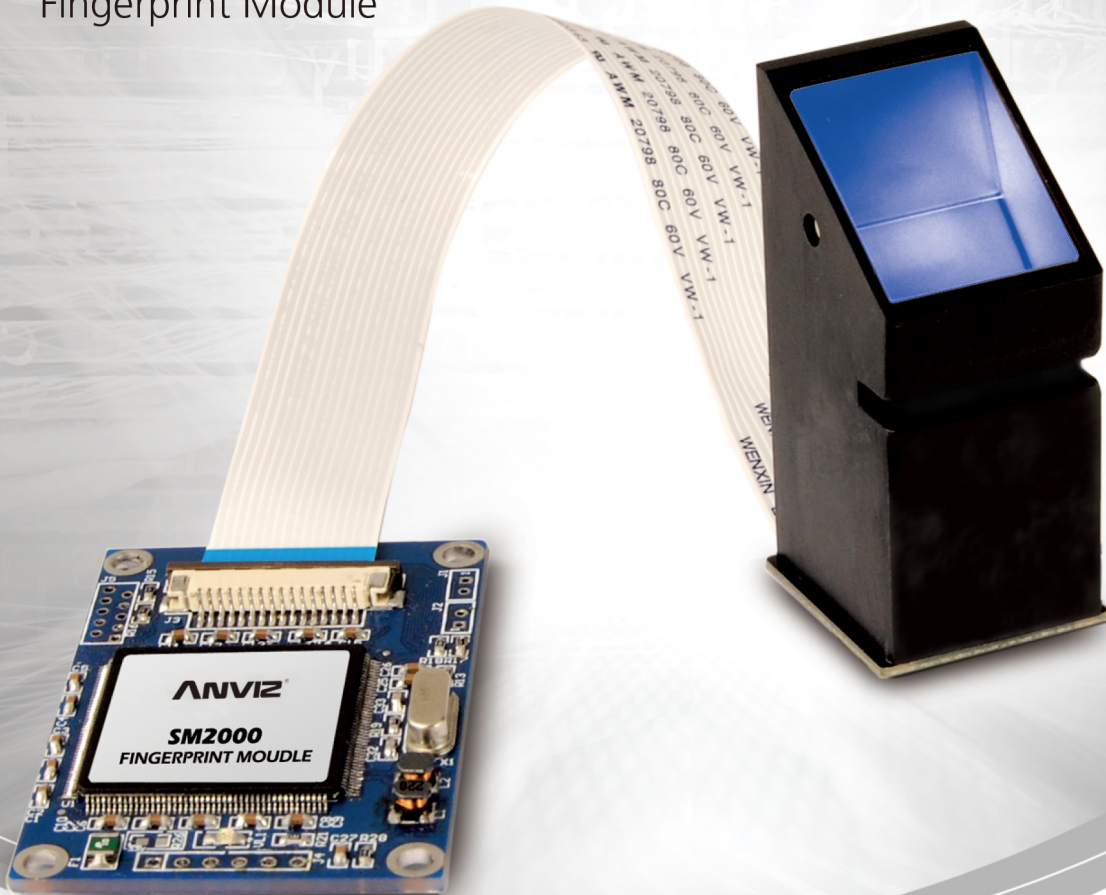


SM2000

Fingerprint Module



Easy integration with your hardware

SM2000 is Anviz new generation fingerprint module for time attendance, access control, lock and safe. SM2000 utilizes optical fingerprint sensor, which consists of high-performance DSP, high-capacity flash and color CMOS chip. SM2000 includes all intelligent modules for fingerprint image processing, template generation, template matching, fingerprint searching, template storage etc. Anviz self-develops and designs optical fingerprint sensor, hardware circuit and fingerprint algorithm. The completely self-owned intellectual property right makes a high performance-price ratio.

USA **BioNANO**[®]

Core Fingerprint Algorithm

Heal broken fingerprint lines
Intelligent fingerprint template update

Fast fingerprint scan
in less than 0.5 second

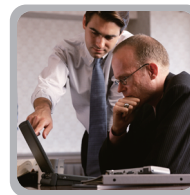
Parameter

Item	Description	Item	Description
Sensor	Anviz optical sensor	Communication Interface	TTL (oc output)
Enrollment Time	<0.1 second	Communication Baud Rate	57600bps
Identification Time	<1 second	Power	3.6V-10V / 120mA
Fingerprint Capacity	2000	Temperature/Humidity	-10 C -40 C/45%RH~85%RH
SD-RAM	2 MB	Size	21(w)*55(h)*25(d)mm
Flash Memory	2 MB	I/O	In:8 bit, Out:8 bit
Algorithm	Nano++	Scan Area	22mm* 18mm
FRR	0.001%	Resolution	500DPI
FAR	0.00001%		

Feature

- Under the command from PC or MCU, SM2000 can independently complete fingerprint enrollment, fingerprint image processing, template generation, template storage, template matching(1:1), fingerprint searching(1:N), etc.
- Developers can simply develop powerful fingerprint identification application system according to the commands which come with SM2000
- Power supply, TTL/RS232 available
- Sleep/awake control interface provided for lower consumption application
- SM2000 has good error correction and error acceptance for fingerprint of lower quality
- SM2000 collects fingerprint image and generates exactly same image
- Users can define different security levels according to different application
- SM2000 can be easily set to different working modules according to different application

Application of Industry



Enterprise



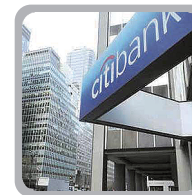
Hotel



Building



Government

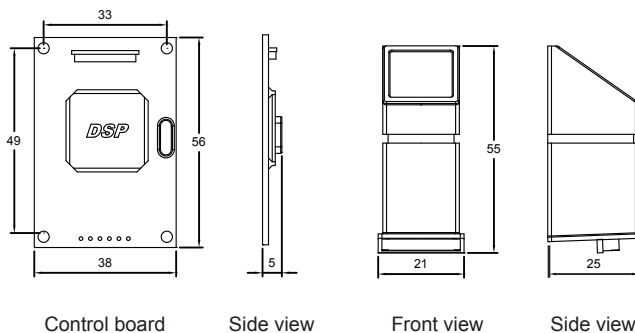


Finance company



Education and training organization

Outline Drawing



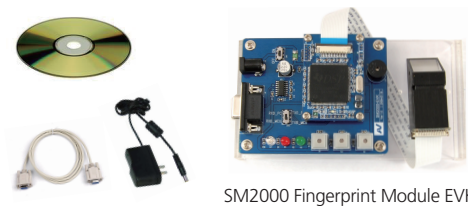
Control board

Side view

Front view

Side view

EVK (evaluation kit)



SM2000 Fingerprint Module EVK

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