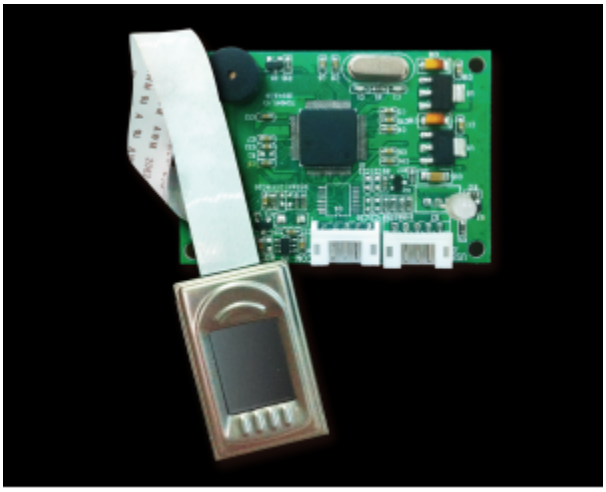
Fingerprint OEM Module TCM045



TCM045 is fingerprint OEM module, integrated with Techshino's patented fingerprint identification algorithm. It's equipped with quality optical sensors, or capacitive fingerprint sensors. As It's compliant with common communication standards, this module can be easily and seamlessly integrated with most security systems to meet a variety of identification needs.

Features

- Offers image capturing and processing, template generating, and matching capabilities.
- Features Techshino's patented algorithm, automatically adjust parameters to scan dry or wet fingers.
- Offers both 1:1 and 1:N matching modes.Uses encryption for data transmitted, processed, and stored.
- Supports 360-degree rotation identification and requires fewer fingerprint characteristic values, making it suitable for embedded systems.
- Offers various communication interfaces and is able to directly communicate with PC and SCM (single-chip microcomputer).
- Features easy installation, effortless customization at a competitive pricing.

Benefits

Customizable and can be embedded into a variety of devices for fingerprint identification purposes.

Specifications

- Matching Mode: 1:1; 1:N
- Template Size: ≤256 bytes/template
- Storage Space: 1000 templates
- FRR: <0.01%
- FAR: <0.00003%
- Enrollment Speed: 1 second/fingerprint
- Verification Speed: 1:1, 2 to 3 milliseconds; 1:N (N<1000), <1 second
- Operating Power Consumption: 200mA @ 5V (maximum)
- Operating Temperature Range: -25℃ to +70℃
- Operating Humidity Range: 20% to 95%
- Installation: Four-corner circular holes (d=2.2mm, and can be expanded to 3.3mm)
- Sensors: AuthenTec, FPC: Semiconductor sensor; Digent: Optical sensor
- Communication Interfaces: RS232 (1200-115200Bps, 9600Bps (default), 8-bits, 1bit stop bit and no parity bit), USB2.0

Applications

The modules can be widely used in ATM, POS terminal, fingerprint door locks, fingerprint safes, arms lockers, anti-burglary utilities on vehicles, authorization management systems of automation devices, ID authentication systems, intelligent residential districts, and security systems of intelligent buildings.