

Fingerprint reader module



This is advanced, high quality optical fingerprint verification module with TTL interface. It consists of optical fingerprint sensor, high performance DSP processor and Flash. It has many functions such as fingerprint Login, fingerprint deletion, fingerprint verification, fingerprint upload and download. User can easily develop powerful fingerprint verification application systems based on the rich collection of controlling command provided by the module.

High Adaptation to Fingerprints:

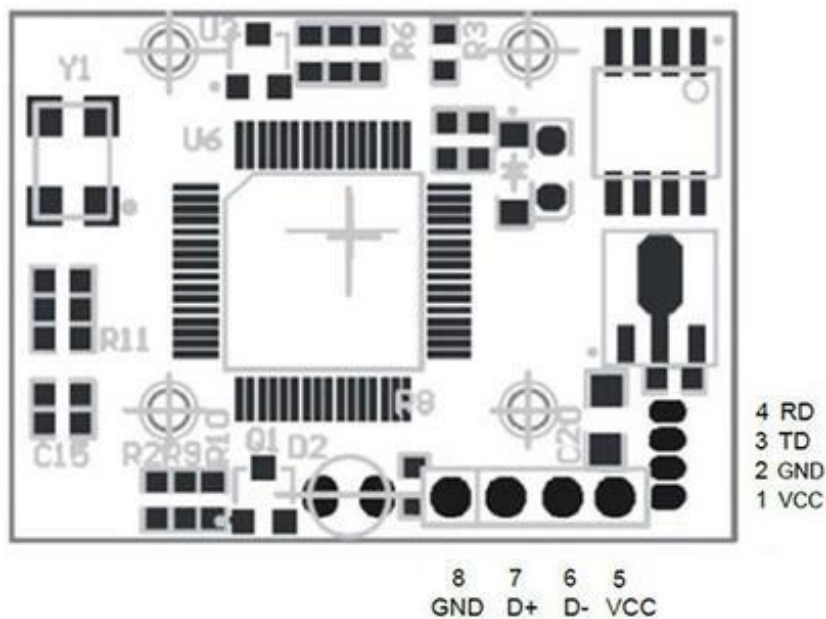
When reading fingerprint images, it has self-adaptive parameter adjustment mechanism, which improves imaging quality for both dry and wet fingers.

Algorithm with Excellent Performance:

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

Specifications:

- **Operating Voltage:** 4.3 : 6VDC
- **Maximum Voltage:** 6.5V (exceeding this value will cause permanent damage)
- **Operating Current :** <80mA (Input voltage 5V)
- **Fingerprint Template :** 768 templates
- **Search Time :** <1.5s (200 fingerprint, average value in test)
- **Power-on Time :** <200ms (Time between module power-on to module ready to receive instructions)
- **Tolerated Angle Offset:** $\pm 45^\circ$
- **User Flash Memory :** 64KByte
- **Interface Protocol:** Standard serial interface (TTL level)
- **Communication Baud Rate:** 57600 bps



Pin no.	Name	Function
1	VCC	Power input
2	GND	Signal ground
3	TD	Data output. TTL logic
4	RD	Data input. TTL logic
5	VCC	+5 VDC
6	D-	Data -
7	D+	Data +
8	GND	Ground

