R307S Fingerprint Sensor Module

Description:

The R307S (1000 Prints) Fingerprint Module includes an optical fingerprint sensor, a high-speed DSP processor, a high-performance algorithm for fingerprint alignment, high-capacity FLASH chips, and other hardware and software components. It has a simple structure, stable performance, and features functions for fingerprint entry, image processing, fingerprint matching, searching, and template storage, among others. A fingerprint sensor module called R307 has a TTL UART interface. The FP module can directly interface with a 3v3 Microcontroller. The user can configure the module in 1:1 or 1: N mode and store the fingerprint data there. A level converter (like MAX232) is needed for the PC interface. The RS232 interface is a TTL level, the default baud rate is 57600, can be changed, refer to a communication protocol, and can microcontroller, such as ARM, DSP, and other serial devices with a connection, 3.3V 5V microcontroller can be connected to directly. The R307 fingerprint module has two interfaces: TTL UART and USB 2.0. USB 2.0 interface can be connected to the computer. Requires connecting the computer for level conversion.

Features:

- Supply voltage: DC 4.2 ~ 6.0V
- Supply current: Working current: 50mA (typical) Peak current: 80mA.
- Fingerprint image input time: <0.3 seconds
- Characteristic file: 256 bytes
- Template file: 512 bytes
- It has six pin connector.

Specifications:

- Model: R307S
- Type: Fingerprint
- Voltage: 3.3V
- Operating Current: 50mA
- Screen Size: 16mm x 20mm
- Dimensions: 48mm x 24mm x 20mm

Pin description:

- **5V:** Regulated 5V DC
- **GND:** Common Ground
- **TXD:** Data output: Connect to MCU RX
- **RXD:** Data Input: Connect to MCU TX
- **TOUCH:** Active Low output when there is a touch on the sensor by a finger
- **3.3V:** Use this wire to give 3.3V to sensor instead of 5V