

Finger Print Sensor(serial data)

Fingerprint processing includes two parts: fingerprint enrollment and fingerprint matching (the matching can be 1:1 or 1:N). When enrolling, user needs to enter the finger two times. The system will process the two time finger images, generate a template of the finger based on processing results and store the template. When matching, user enters the finger through optical sensor and system will generate a template of the finger and compare it with templates of the finger library. For 1:1 matching, system will compare the live finger with specific template designated in the Module; for 1:N matching, or searching, system will search the whole finger library for the matching finger. In both circumstances, system will return the matching result, success or failure.



Features

- Interface: UART(TTL logic level)/ USB 1.1
- Matching mode: 1:1 and 1:N
- Image acquiring time: <0.5s
- Baud rate: (9600*N)bps, N=1~12(default N=6)

Applications

- Biometric access.
- Identity management.
- Drug dispensary.
- Banking account access.

Specifications

Parameter	Value
Power	3.6 to 6v dc
Working current	Typical:100mA, Peak:150mA
Storage capacity	120/375/880

Working

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Hardware connection:

Via serial interface, the Module may communicate with MCU of 3.3V or 5V power: TD (pin 2 of P1) connects with RXD (receiving pin of MCU), RD (pin 3 of P1) connects with TXD (transferring pin of MCU). Should the upper computer (PC) be in RS-232 mode, please add level converting circuit, like MAX232, between the Module and PC. Serial communication protocol The mode is semi duplex asynchronism serial communication. And the default baud rate is 57600bps. User may set the baud rate in 9600-115200bps.

Transferring frame format is 10 bit: the low-level starting bit, 8-bit data with the LSB first, and an ending bit. There is no check bit. Reset time At power on, it takes about 500ms for initialization. During this period, the Module can't accept commands for upper computer.

Sample Application

To view sample code and schematic click the below link:

<http://researchdesignlab.com/index.php/sensors/finger-print-sensor-serial-data.html>

To buy this product click the below link

<http://researchdesignlab.com/index.php/sensors/finger-print-sensor-serial-data.html>

To view the complete datasheet of Fingerprint sensor click the below link:

<http://forum.researchdesignlab.com/datasheet/fingerprintserial>



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