

Description of JM-101 Fingerprint Readers - optical sensor:

This fingerprint scanner (as608-optical reader) is ideal for Arduino or Raspberry thanks to its small size and low power consumption. It has a simple interface, high reliability, good adaptability of wet and dry fingers, fast recognition speed and also in fast fingerprint search.

This device works with the serial protocol, which means that it can be used by any microcontroller or development board.

These fingerprint readers are generally used for safes. It has a high power DSP chip (JM101B) which performs calculation, representation, feature search and image search. The device has the capacity to store up to 120 fingerprints in its internal FLASH memory. It incorporates an LED that lights up while it performs the fingerprint search. In order to use the device it is necessary to save the fingerprints in the database of the device. These prints are assigned an ID. Later the reading and comparison sequence can be started to verify the user's fingerprints in order to discern and execute actions based on the result.

Features:

The storage, comparison and search of fingerprints are performed by the fingerprint reader's own functions.

Its algorithm, extracts the characteristics of the image acquired from the fingerprints and representing the information obtained in the system.

Processes:

- Fingerprint registration
- Fingerprint matching (divided into comparison and search of fingerprints with the database)

Specifications:

- Resolution: 500 DPI
- Consumption: < 65mA

- Template file size: 512 bytes
- PC interface: UART (TTL logic level)
- Default serial transmission speed: 57600bps
- False Acceptance Rate (FAR): < 0.001% (security level 3)
- False Rejection Rate (FRR): < 1.0% (security level 3)
- Search time: < 1.0 seconds (1: 500 on average)
- Input time of the scanned image: 1.0 seconds
- Supply current: 60mA
- Supply voltage: 3.6V -6V
- Working temperature:-20 ° C to 50 ° C
- Scanning area: 14.5 x 19.4mm
- Dimensions: 56*20*20.5mm

Include:

- JM101B Footprint Sensor
- Cable