Futronic FS84 ethernet Fingerprint Authentication Module(eFAM)

Major features and benefit:

Futronic FS84 ethernet Fingerprint Authentication Module(eFAM) combines both high performance fingerprint scanner and recognition engine into one device. It has internal memory that can store up to 2500 fingerprint templates.

Any host system can control the FS84 via standard Ethernet interface to enroll finger and recognize finger. The recognition result will be sent from FS84 to the host.

4 wires serial interface is also available. So FS84 can be used for both embedded and remote fingerprint recognition application.

Fingerprint images and templates can be transferred between FS84 and host system via serial and ethernet interface.

FS84 has 1 output channel(for external relay control) and 2 input channels(for door sensor and switch). So it can be used as a fingerprint access control device.

Futronic provides full SDK to customer free of charge for integrating the FS84 with any host system.

Specification:

Fingerprint scanner:
- Fingerprint scanning window size is 16x24mm
- Image resolution is 480x320 pixel, 500 DPI
- Raw fingerprint image file size is 150K byte
- Light source: Infrared LED

Fingerprint recognition engine:
- Processor: Analog Device ADSP-BF532
- 16MB SDRAM and 16MB Flash memory
- Can store up the 2500 fingerprint templates
- With Futronic proprietary software and fingerprint recognition algorithm
- Fingerprint recognition accuracy: FAR-10^{-6}, FRR-10^{-2}
- Fingerprint template format same as all other Futronic products

Electrical:
- 4 wires serial interface, VCC, GND, TX and RX. Speed up to 961200bps.
- Ethernet communication speed: 10M
- Supply voltage: 12V. Max current consumption: 250mA
- 1 output and 2 input channels for controlling external devices
- 2 output channels for controlling external LEDs
- ESD: contact 8KV and air discharge 16KV no permanent damage

Others
- Built in buzzer for status indication
- Weight: 200 grams
- Size: 105mm(L) x 80mm(W) x 40mm(H)
- Operation temperature: -20 to +55 Degree Celsius
- Finger scanning Window is waterproof

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