

## **Futronic FS84C PIV ethernet Fingerprint Authentication Module(eFAM)**

### **Major features and benefit:**

Futronic FS84C 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 FS84C via standard Ethernet interface to enroll finger and recognize finger. The recognition result will be sent from FS84C to the host.

4 wires serial interface is also available. So FS84C can be used for both embedded and remote fingerprint recognition application. Fingerprint images and templates can be transferred between FS84C and host system via serial and ethernet interface.

FS84C 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 development tools to customer free of charge for integrating the FS84C with any host system.

FS84C's fingerprint engine can also extract and match ANSI/ISO template. Please contact Futronic for details.



### **Specification:**

#### **Fingerprint scanner:**

- Fingerprint scanning window size is 16x24mm
- Image resolution is 320x480 pixel, 500 DPI
- Image format is 8 bit 256 grayscale
- Raw fingerprint image file size is 150K byte
- Light source: Infrared LED

#### **Fingerprint recognition engine:**

- 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: 10/100M
- Supply voltage: 12V.
- Max current consumption: 150mA
- 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: 250 grams
- Size: 105mm(L) x 80mm(W) x 40mm(H)
- Operation temperature: -10 to +55 Degree Celsius
- Finger scanning Window is waterproof



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