

# Futronic's FS26EU USB2.0 Dual Card Combo Reader

## Major features and benefit:

The Futronic FS26EU Fingerprint Reader combines Futronic's FS26E USB2.0 Fingerprint Scanner and a ISO7816 contact & ISO14443A/B contactless combo smart card reader into one device. A SAM (Secure Access Module) is also built-in to increase the device security. FS26E meets the US Federal Information Processing Standard 201(FIPS 201) for Personal Identification Verification (PIV) of Federal Employees and Contractors.

FS26EU has a powerful BlackFin DSP processor for on device image processing. It communicates with the smart card reader by internal serial interface. After a fingerprint is captured, DSP will process the image and generate a template for smart card storage, MoD (Match On Device) or MoC (Match On Card) processing.

FS26EU is an ideal device for highly secure two-factor authentication application. A user can register fingerprint and store on smart card (carried by user) and do MoD or MoC with a freshly captured fingerprint from fingerprint scanner at the time of authentication. The registered fingerprint template will never leave the smart card that further enhances the system security.



### **Typical Application**

- e-Government
- e-Banking and e-Payment
- e-Healthcare
- Transportation
- Network Security

### **Specification-general**

- USB 2.0 compatible, plug and play device
- With a 2M standard USB cable
- Small size, 120x72x42 mm
- Light weight, 250 gram
- Operation temperature: -10 to +55°C

### **Specification-Fingerprint scanner**

- Fingerprint scanning window size is 16.26x24.38mm
- Image resolution is 320x480 pixel, 500 DPI
- Raw fingerprint image file size is 150K byte
- With Live Finger Detection (LFD) feature
- Unique serial number programmed to USB Device Descriptor
- With internal memory for 100 fingerprint template storage

### **Specification-Smart card reader**

#### **ACS Contact & Contactless Reader Module**

#### **Contact card**

- Full speed USB interface to PC with simple command structure
- Support ISO7816 Class A, B & C, 5V, 3V, 1.8V contact cards\*
- Support microprocessor cards with T=0 or T=1 protocol
- Support PPS, PC/SC & CT-API (Through wrapper on top of PC/SC)

#### **Contactless card**

- Support ISO14443 A/B, Mifare classic cards\*
- Read/Write Speed up to 848Kbps.
- Card reading distance 30mm
- Support PC/SC & CT-API (Through wrapper on top of PC/SC)

#### **SAM**

- Support ISO7816 MCU Card

\* For specific supported card types, please contact Futronic for detail.

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