

Futronic's FS26 USB2.0 Fingerprint Mifare Card Reader/Writer



Specification-general

USB 2.0 compatible interface, plug and play device
Support MS Windows XP/Vista/7/8/10/11 and Android
With a 2 meter standard USB cable
Size, 98 x 98 x 30 mm
Weight, 200 gram
Operation temperature: -10 to +55 Degree Celsius
Supply voltage: DC 4.5-5.5V via USB port
ESD contact - 8KV and air discharge - 16KV, no permanent damage

Specification-Fingerprint scanner

Fingerprint scanning window size is 16x24mm
Image resolution is 320x480 pixels, 500 DPI
8 bit grey levels
Light source: Infrared LED
Raw fingerprint image file size is 150K bytes
With Live Finger Detection (LFD) feature
Can store a maximum of 100 fingerprint
FAR=0.000001 and FRR=0.01

Specification-Mifare card reader/writer

Compliant with ISO14443A
Carrier frequency: 13.56MHz
Support standard Mifare key encryption
Support both 1KB and 4KB Classic Mifare cards
Card sensing range: Min. 10mm
Card read/write time: < 0.5sec(also depends on the data size)
Two color LED for Mifare card reader/writer status indication

Major features and benefits:

Futronic's FS26 USB2.0 Fingerprint Mifare Card Reader/Writer combines a fingerprint scanner and an ISO14443A compatible Mifare card Reader/Writer into one device.

FS26 is a standalone fingerprint matcher and can do "Match on Device". Under the control of PC via USB interface, it captures a fingerprint image, extracts the minutiae (fingerprint characteristics) and then stores to its internal memory. The stored fingerprint can be used to match with a freshly captured fingerprint and matching result is sent to PC for authentication. Its internal memory can store up 100 fingerprints.

FS26 can handle ISO14443A compatible Mifare card and has all the necessary functions to support both 1KB and 4KB Mifare cards.

With a combination of fingerprint "Match on Device" and ISO14443A Mifare card Reader/Writer, FS26 is perfect for real two-factors authentication, what you own(finger) is matched with what you carry(Mifare card). It is because fingerprint data can be stored to Mifare card and at the time of authentication:

1. User shows the Mifare card and FS26 read the fingerprint data stored in card.
2. Then put finger and FS26 scans the fingerprint image.
3. FS26 matches the scanned fingerprint with the fingerprint data read from the Mifare card.
4. The matching result is sent to PC for authentication

The use of fingerprint recognition for logical and physical access control has been controversial. It is because the fingerprint data must be stored somewhere in system for authentication. This may infringe the privacy of users in some cases. And FS26 is the answer to this problem as it can identify an individual using fingerprint without storage of fingerprint data in the system.

FS26 can also be used together with Fingerprint authentication Server (FAS) which is Futronic proprietary software running on MS Windows for user & fingerprint database management, access and attendance control.

A serial port is designed inside FS26. This is used to connect with Futronic's FS30 RRU (Remote Relay Unit). With FS30 and FS26 connected to an Android device, they can form a standalone Physical Access Control System or a Time and Attendant System. An optional wall mount is available to install FS26 on wall in this case.

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