

Futronic's M1 USB2.0 Dual Card Combo Reader

Major features and benefit:

The Futronic M1 Fingerprint Reader combines Futronic's M1 USB2.0 Fingerprint Scanner and a ISO7816 contact & ISO 14443A/B contactless combo smart card reader into one device. A SAM (Secure Access Module) is also built-in to increase the device security. M1 meets the Personal Identification Verification (PIV) fingerprint image quality standard.

M1 has a powerful ARM Cortex A7 processor for on device image processing. It communicates with the smart card reader by internal serial interface. After a fingerprint is captured, the ARM Cortex A7 processor will process the image and generate a template for smart card storage, MoD (Match On Device) or MoC (Match On Card) processing.

M1 is an ideal device for highly secure two-factor authentication application. A user can register fingerprint and store on smart card (arried by user) and do Mod or MoC with a freshly capture 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

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www.smartid.com.vn

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
- With internal memory for 100 fingerprint template storage

Specification-Smart card reader

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

Contactless card

- Support ISO14443 A/B, Mifare classic cards*
- Read/Write Speed up to 848Kbps.
- Card reading distance 30mm
- Support PPS & PC/SC

SAM

- Support ISO7816 MCU Card

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