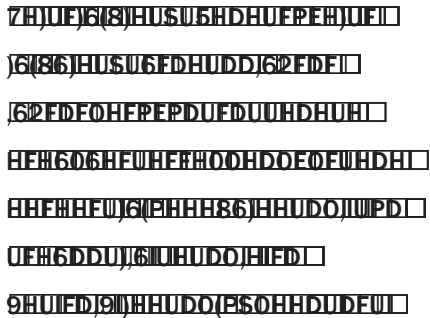


# Futronic FS2 U

USB2.0 Dual Card Combo Reader



## Description



FS88HS uses advanced CMOS sensor technology and a precise optical system to meet the rigorous requirement of fingerprint image quality of PIV-071006. Its crown glass fingerprint scanning window is 14mm thick and resists scratches and other stress, ensuring long term heavy duty usage. It is a robust but cost effective single finger capture device with built in Smart card reader, ideal for border control, identity card, drivers license, election and any type of civilian AFIS application.

FS88HS has exactly all features of FS88H and can be used as purely fingerprint scanner. The smart card reader in FS88HS can handle any ISO7816 compatible smart card and can also be used as a standalone smart card reader.

The fingerprint scanner and smart card reader can be combined to do two-factor authentication. The registered fingerprint can be stored on the smart card (carried by user) which is read into PC to match with a freshly captured fingerprint from fingerprint scanner at the time of authentication.

## Features and Benefits

- Unique serial number
- Precise optical system
- Meets the US FIPS 201
- Listed in the US GSA FIPS 201 Evaluation Program Approved Product list
- Live Finger Detection
- ISO7816 Smart card reader

For any biometric scanner to capture and/or match fingerprints, biometric software is needed and does not ship with the scanner.

Please contact

**Fulcrum Biometrics Southern Africa**

to ensure that you are compiling the best solution for your needs.

[www.fulcrumbiometrics.co.za](http://www.fulcrumbiometrics.co.za)

## Technical Specifications

|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| General              | Size: 65 x 94 x 49mm<br>Weight: 210 g<br>Operation temperature: -10 to + 55 °C<br>2M standard USB cable<br>Supply voltage: C 4.5-5.5 V via USB port<br>Power consumption: Active <900mW, Standby <200mW, Sleep mode <4mW<br>ESD contact - 8KV no permanent damage<br>ESD air discharge - 16KV no permanent damage                                                                                                                                                                        |
| Fingerprint Scanner  | Window size: 16.26 x 24.38mm<br>Image resolution: 320x480 pixels, 500 DPI, 8 bit grey level<br>Fingerprint image size: 150K<br>Live Finger Detection (LFD) feature<br>Unique serial number programmed to USB Device Descriptor<br>With 16K Byte memory for application-specific data storage                                                                                                                                                                                             |
| Smart card Reader    | ACS AC1038 Reader Chip<br>Full speed interface to PC with simple command structure<br>Supports SLE4418/28/32/42 memory cards<br>Supports most common memory-based smart cards,<br>including I2C bus protocol cards(from 1K bits up to 1024K bits)<br>and secure memory cards (Atmel AT88SC153 and AT88SC1608)<br>Certificate of conformance: ISO7816, PC/SC, EMV Certified<br>Support PPS (Protocol and Parameters Selection) with 1743-305200 bps in reading and<br>writing smart cards |
| Certifications       | FCC, CE, RoHS                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Standards/Compliance | FIPS 201/PIV 071006 Image Quality Specification, Microsoft WHQL                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Compatibility        | <a href="#">Fulcrum Biometrics Framework (FbF®)</a> , <a href="#">Biodentify</a> , <a href="#">VeriFinger SDK</a> , <a href="#">MegaMatcher SDK</a> ,<br><a href="#">Futronic SDK</a>                                                                                                                                                                                                                                                                                                    |

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