

# Futronic FS82HC

USB2.0 Fingerprint / Smart Card Reader



## Description

The Futronic FS82HC Fingerprint Smart Reader combines Futronic's FS80H USB2.0 Fingerprint Scanner and ISO7816 smart card reader into one device.

The FS82HC has a high quality optical fingerprint scanner with a rugged case and tough crown glass window. Futronic's FS82HC USB 2.0 Fingerprint Scanner uses advanced CMOS sensor technology and precise optical system to deliver a high quality fingerprint image. It can capture an almost un-distorted raw fingerprint image into a PC in 100ms, making it ideal for a fingerprint recognition application. Its finger scanning window is 14mm thick, which means it is much more reliable and robust compared to any semiconductor-type fingerprint scanner.



FS82HS has the same features as the FS80H and can be used as purely fingerprint scanner. The smart card reader in FS82HC 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.

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## Features and Benefits

- Precise optics allow the scanning of practically undistorted fingerprint images
- Live Finger Detection rejects fake fingers made from silicone, rubber, play-doh or other materials
- Infra-red illumination allows scanning of wet, dry, blurred and other problematic fingers
- Rugged sensor has a thick (14 mm) crown glass used for platen
- Practically indestructible scanner surface

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: 50 x 73 x 35mm Weight: 180 g Operation temperature: -10 to + 55 °C 2M standard USB cable Supply voltage: C 4.5-5.5 V via USB port Power consumption: Active <900mW, Standby <200mW, Sleep mode <4mW ESD contact - 8KV no permanent damage ESD air discharge - 16KV no permanent damage
Fingerprint Scanner	Window size: 16 x 24mm Image resolution: 320x480 pixels, 500 DPI, 8 bit grey level Fingerprint image size: 150K Live Finger Detection (LFD) feature
Smart card Reader	ACS AC1038 Reader Chip Full speed interface to PC with simple command structure Supports SLE4418/28/32/42 memory cards Supports most common memory-based smart cards, including I2C bus protocol cards(from 1K bits up to 1024K bits) and secure memory cards (Atmel AT88SC153 and AT88SC1608) Certificate of conformance: ISO7816, PC/SC, EMV Certified Support PPS (Protocol and Parameters Selection) with 1743-305200 bps in reading and writing smart cards
Certifications	FCC, CE, RoHS
Standards/Compliance	Microsoft WHQL
Compatibility	<a href="#">Fulcrum Biometrics Framework (FbF®)</a> , <a href="#">Biodentify</a> , <a href="#">VeriFinger SDK</a> , <a href="#">MegaMatcher SDK</a> , <a href="#">Futronic SDK</a>

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