

Futronic FS84C

Fingerprint authentication module with ethernet interface



Bioidentidad Futronic FS84C is a biometric module whose capture quality is certified by the FBI for the verification of the identity of persons (PIV - Personal Identity Verification), and at the same time contains an embedded biometric processor with NIST MINEX certified accuracy, according to international biometric standards ISO and ANSI.

Its large capture window generates fingerprint images of 480 x 320 pixels and is made of a special glass that is 14mm thick, resistant to scratches and other stresses, ensuring its use in harsh environments. It has excellent performance for use with various types of skins and environmental conditions.

The FS84C communication is by Ethernet or serial protocols, and can be integrated with various types of hardware and software.

High-quality biometric recognition integration for ethernet and serial communication systems

GENERAL FEATURES

Bioidentidad FS84C uses an advanced optical precision system with CMOS technology sensor, which meets the rigorous requirements of fingerprint image quality required by the PIV-071006 standard and is certified by the FBI.

Likewise, its hardware and embedded biometric algorithm allow to perform enrolment, template generation, image compression, fingerprint verification and identification locally.

Through its Ethernet or serial communication, it is compatible with a wide variety of hardware, including PCs, microprocessor-based digital systems, microcontrollers, DSPs and any electronic system that can interface with Ethernet or serial ports.

The FS84C's internal memory allows up to 2,500 biometric templates to be stored and used in verification (1:1) and identification (1:N) processes.

The FS84C is a high quality, compact and robust cost-effective single fingerprint biometric module, ideal for integration into any type of hardware, including ATMs, vending machines, point-of-sale, access controllers, alarm panels, electronic projects, robots, vehicles and any hardware where biometric functionalities are required.

BIOMETRIC DEVELOPMENT KIT

The FS84C is controlled through ethernet or serial commands and allows to perform:

- Automatic fingerprint capture
- Fingerprint image acquisition (RAW, WSQ formats)
- Biometric enrollment (FS, ANSI 378, ISO 19794-2 formats)
- Biometric information storage
- 1:1 biometric verification
- 1:N biometric identification



The FS83C biometric fingerprint module is internationally recognized for its high quality, which has been certified by the FBI. It is designed to be conveniently integrated with any hardware via ethernet or serial interface.



PROVEN QUALITY

The high quality of the FS84C is endorsed by internationally recognized security organizations such as the FBI, NIST, among others



HIGH PERFORMANCE

The FS84C will surprise you. Fingerprint capture is fast and fingerprinting can be processed in real time, all in ideal quality.



MAINTENANCE FREE

Made with state-of-the-art electronic technology and no moving parts, it is designed to have an MTBF* of more than 50,000 hours.
(*MTBF: Mean Time Between Failures)

"The safety and reliability of our systems is driven by the most demanding needs of our customers, and our goal is to exceed their expectations."



INTEROPERABLE TECHNOLOGY

Because the Bioidentidad FS84C complies with international biometric standards, fingerprints captured with it can be used in a variety of biometric systems, regardless of the manufacturer.



EASY INSTALLATION

The FS84C does not require drivers or libraries. It is controlled through Ethernet or serial commands, independent of the platform.



PERMANENT TECHNICAL ASSISTANCE

Bioidentidad provides specialized technical assistance, accompanied by warranty and experienced biometric consulting.

Bioidentidad® provides high performance solutions for people identification and control.

With more than two decades of experience in research, development, manufacturing, consulting, project implementation, distribution and support, it is the preferred choice of biometrics experts.

TECHNICAL SPECIFICATIONS

- Sensor type: Optical CMOS with 14mm thick high durability glass prism.
- Image resolution: 500 dpi, 256 gray levels.
- Image size: 480 x 320 pixels
- Scanner area: 24 x 16 mm
- Scanner illumination: 4 infrared LEDs
- Image quality: FBI certified according to PIV standard
- Dust and liquid ingress protection of the scanner
- Ethernet communication interface: 10M, connector RJ45 (UTP)
- Serial communication interface: 4-wire serial protocol (VCC, GND, TX, RX) with speeds of 4800bps, 9600bps, 19200bps, 38400bps, 57600bps, 115200bps, 230400bps, 460800bps, 921600bps, including RS232.
- Embedded processor: ADSP-BF533 Blackfin.
- On-board memory: 32MB SDRAM, 32MB Flash
- Visual indicators: 2 outputs for LED
- Sound indicator: "buzzer"
- Input/output ports for external controls: 2 inputs and 1 output (relay). Can be used to control a door or turnstile.
- Power supply: 12 volts
- Maximum power consumption: 250mA
- Electrostatic discharge resistance: contact 8KV, air 16kV
- Operating range: -20° a 55°C
- Dimensions: 105 x 80 x 40 mm
- Weight: 200 grams
- Technical standards:
 - FBI IAFIS Image Quality Specifications (IQS) Personal Identity Verification (PIV) Single Finger Capture Device Specifications
 - FCC, CE, RoHS
 - BMP, WSQ (IAFIS-IC-0110)
 - NIST MINEX
 - ANSI INCITS 378
 - ISO IEC 19794-2

SUPPORTED PLATFORMS

Any hardware (PC, laptop, tablet, smartphone, POS, ATM, PLC, microcontroller, DSP, digital system) with Ethernet (10M) or four-wire serial (VCC, GND, TX, RX) communication interface with speed up to 921600 bps.



The fingerprint obtained with the FS84C is of such high quality that even the pores located on the finger ridges can be seen.

Bioidentidad – Futronic division

www.futronictech.com
info@futronictech.com



Americas - Oceania
+51987827742

Europe - Asia - Africa
+351912246899

