



## Futronic FS88HS

USB2.0 PIV Fingerprint  
Smart Card Scanner

The **Futronic FS88HS Fingerprint Smart Reader** combines Futronic's FS88H USB2.0 PIV Fingerprint Scanner and ISO7816 smart card reader into one device. FS88H meets the US Federal Information Processing Standard 201(FIPS 201) for Personal Identification Verification (PIV) of Federal Employees and Contractors.

The **FS88HS** has exactly all the features of FS88H. It can be used as purely a fingerprint scanner with all Futronic's standard software. The smart card reader in **FS88HS** can handle any ISO7816 compatible smart card therefore it can also be used as a standalone smart card reader.

This 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. This can be achieved by using Futronic's Fingerprint Recognition Software Development Kit (SDK).

## Technical Specifications

### General

- USB 2.0 compatible, plug and play device
- With a 2M standard USB cable
- Small size, 65 x 94 x 49 mm
- Light weight, 210 gram
- Operation temperature: 10 to +55 Degree

### 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
- Unique serial number programmed to USB Device Descriptor
- With 16K Byte memory for application-specific data storage

### 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