MorphoSmart™ 1300

USB fingerprint device for highly secure desktop applications

- Perfectly suited to desktop and laptop applications
- Advanced embedded software for
- 1:1 verification and 1:N identification
- Intrinsic security features

Sagem Défense Sécurité
SAFRAN Group

MSO 1300

A trusted compact biometric device with enhanced security features

With its optic technology and its large scanning area, the MorphoSmart™ 1300 reaches a high level of performance and robustness. The surface of the scanner is designed to optimize fingerprint reading. As such, it is ideal for a broad range of enrolment, authentication and identification applications.

Furthermore, it offers local matching on the terminal or remote matching on a host server. The host system provides security by encrypting data and checking data integrity. It can be customised using a Software Development Kit (SDK). Whether used for off-the-shelf enrolment or in custom-made applications, the MorphoSmart™ 1300 offers a flexible, low-cost solution for fast and secure processing of quality fingerprint images.

Software Integration
The MorphoSmart™ 1300 family range is intended for PC-based applications. Thanks to its SDK, it can interface with any type of host application. Moreover a BIOAPI compliant software suite is also available*.

Security
The module captures, processes and matches fingerprints internally, thereby increasing security. In addition, it can be configured in two security operating modes, allowing data integrity check by the host (by way of a digital signature) or exchange encrypted data (using secure tunnelling). These mechanisms rely on PKI infrastructure technology: each device is loaded with its own X.509 certificate and the biometric templates are encapsulated in an X9.84 token.

Biometric features
The MorphoSmart™ 1300 is an unmatched device that offers in a very small volume the ability to both verify (1:1) and identify (1:N) people on a database of around 1000 templates. Verification or identification takes less than 1 second.

Applications
• Logical access control
• Single Sign On
• End-to-end user authentication (in the context of client/server applications)
• Etc

Technical characteristics

Mechanical
• L=67; W=38; H=15mm
• Weight: 40g

Sensor
• Thin optical sensor
• 500 dpi @ 8-bit per pixel
• Active area: 13mm x 20mm

Processor
• Powered by an ARM9™ family CPU core

Power consumption
• Fully operating, sensor on: 300mA max @ 5V
• Fully operating, sensor off: 100mA max @ 5V
• Interface USB 1.1 and 2.0

Environmental
• Operating temperature: -10°C to 50°C

Software
• MorphoSmart™ SDK **
• BIOAPI compliant software suite*
• WHQL certified driver (by Microsoft®)

Operating System
• Windows® 2000, XP and 2003 server
The MSO1300 is also compatible with the communication device class defined by the USB consortium*

Algorithms
• MorphoImaging™, MorphoSoft™ Embedded

Database
• Most common operations supported
• Storage capacity: 1000 templates

Biometric features
• 1:1 and 1:N search
• Verification time < 0.8s
• Identification time < 1s
• Tunable false acceptance rate

Certification
• CE and FCC15

Please contact us for more information
*** Please refer to MorphoSmart™ data sheet for more information*

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fingerprint-i.t.
fingerprint identification technology