



# MorphoSmart™ MSO XX1 OEM

## OEM Fake Finger Detection module

- *Advanced device for high security environment*
- *Fake finger detection*
- *FBI PIV-IQS certified*
- *FIPS 201 approved template generator and matcher*
- *Fast authentication and identification*



**Sagem Morpho Inc.**  
SAFRAN Group



## OEM Fake Finger Detection module

### Choose leading edge technology from the world leader in biometrics

The MSO XX1 OEM complements the MorphoSmart™ range and offers the possibility to detect a fake finger thanks to SAGEM Sécurité's patented optronic sensor technology. The MSO XX1 OEM module meets and exceeds FBI PIV-IQS requirements.

**This device is perfectly suitable for the following applications:**

- Access control to high-security environments
- Readers left unsupervised
- Identification for banking transactions (POS, ATM)

### The best of Sagem Sécurité's fingerprint technology

The MorphoSmart™ MSO XX1 OEM includes embedded software components integrating the SAGEM algorithms, approved by the GSA FIPS201 Evaluation Program. SAGEM technology ranks first place in the MinEx benchmarking for interoperability, conducted by NIST.

### A world of advantages in a compact design

- **High speed 1:1 verification** (0.8 sec.) and **1:N identification** (< 1 sec for 500 users)
- **Fake Finger Detection**
- **Optronic sensor** (500 DPI), with **large capture area**: 23 x 23mm
- **Large database of up to 10,000 templates**
- **Choice of template formats**: Sagem Sécurité proprietary, ISO SC37 19794-2 or ANSI/INCITS 378
- **Accurate**  
The false acceptance rate (**FAR**) can be adjusted down to **10<sup>-8</sup>** depending on the required level of security  
High accuracy when processing **juvenile fingers**
- **Robust**  
The optical sensor technology offers **longer life-time** and **enhanced resistance to electro-static discharges**, scratches and shocks. With the entire module sealed from dust and water, it is easily integrated into **IP65**-rated end products.
- Capable of supporting **2 communication protocols**: RS232 or USB interfaces
- **Versatile**, same device for enrollment and identification
- Equipped with the **security option**, the MorphoSmart combines in one device the technologies of biometric authentication and Public Key Infrastructure (PKI) to offer a truly secure solution for positive person authentication. This technology is compatible with existing X.509 PKI.
- **Software package available**
  - The SDK – Software Development Kit – allows the development of applications thanks to DLL available on the Windows® platform and uses the embedded algorithms of MorphoSmart™ MSO OEM,
  - Bio API Interface included,
  - Development on the Linux platform available upon request,
  - ILV protocol is available.
- **RoHS, CE compliant**

|                                    | MSO xx1 OEM | MSO xx1 OEM Identlite | MSO xx1 OEM Identplus |
|------------------------------------|-------------|-----------------------|-----------------------|
| <b>Verification 1:1</b>            | Yes         | Yes                   | Yes                   |
| <b>Identification 1:N</b>          | Yes         | Yes                   | Yes                   |
| <b>Number of users</b>             | 500         | 3,000                 | 5,000                 |
| <b>Record capacity (templates)</b> | 1,000       | 6,000                 | 10,000                |
| <b>Fake Finger Detection</b>       | Yes         | Yes                   | Yes                   |

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