Advanced device for high security environment
Fake finger detection
FBI PIV IQS certified
FIPS 201 approved template generator and matcher
Fast authentication and identification
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 Morpho'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 Morpho’s fingerprint technology

The MorphoSmart™ MSO XX1 OEM includes embedded software components integrating the Morpho algorithms, approved by the FIPS 201 Evaluation Program. Morpho technology ranks first place in the Ongoing MINEX benchmark for interoperability, conducted by NIST.

A world of advantages in a compact design

- High speed 1:1 authentication (0.8 sec.) and 1:N identification (< 1 sec for 500 users)
- Fake Finger Detection
- Optronic sensor (500 dpi), with large capture area: 23mm x 23mm
- Large database of up to 10,000 templates
- Choice of template formats: Morpho proprietary, ISO 19794-2 or ANSI/INCITS 378
- Accurate
  The false acceptance rate (FAR) can be adjusted down to $10^{-8}$ 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 can be easily integrated into IP 65-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, it 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 MorphoSmart™ SDK allows the development of applications thanks to DLL available on Windows® platforms and uses the embedded algorithms of MorphoSmart™ MSO OEM,
  - Bio API Interface included,
  - Development on Linux platforms available upon request,
  - ILV protocol available.
- Compliant with CE, FCC and RoHS standards

<table>
<thead>
<tr>
<th>Verification</th>
<th>MSO xx1 OEM</th>
<th>MSO xx1 OEM Identlite</th>
<th>MSO xx1 OEM Identplus</th>
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</thead>
<tbody>
<tr>
<td>Identification 1:N</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Number of users</td>
<td>500</td>
<td>3,000</td>
<td>5,000</td>
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<td>Record capacity (templates)</td>
<td>1,000</td>
<td>6,000</td>
<td>10,000</td>
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<tr>
<td>Fake Finger Detection</td>
<td>Yes</td>
<td>Yes</td>
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