MORPHOSMART™ CBM

Solution for quick integration of biometrics features

Innovative flat optical sensor for compact design

Designed to suit a wide range of applications

Excellent identification performance

Large database capacity

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OEM FINGERPRINT MODULE

Choose leading edge technology from the world leader in biometrics

The MorphoSmart™ CBM is a compact biometric device. It is based on Morpho's proprietary optical technology and biometric algorithms, which are both known worldwide for their high levels of accuracy and performance, as well as their exceptional robustness.

Whether used for off-the-shelf or custom-made applications, the MorphoSmart™ CBM offers a flexible, cost-effective solution for the fast and secure processing of high quality fingerprint images.

Smart and innovative applications with CBM

Morpho offers integrators the ability to add rapidly and without specific knowledge of biometrics, the benefits of fingerprint identification to their applications: physical and logical access control, time & attendance, keyboards, printers, kiosk, point-of-sale terminals, vending machines, alarm systems, mobile devices, safes and locks, locker systems, remote controls, etc.

A world of advantages in a compact design

- Fast 1:1 authentication (0.6 sec) and 1:N identification (0.8 for 500 users)
- High-performance optical sensor (500 dpi), with large capture area: 14mm x 22mm
- 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.
- Easy integration into existing systems

   USB or Serial TTL Open-Collector interfaces
- Versatile, same device for enrollment and identification
- Enhanced security features

   Two different security operating modes: data integrity check by the host – by way of a digital signature – or encrypted data exchange – using secure tunneling.
- 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™ CBM. Development on Linux platforms available upon request. ILV protocol also available
- Compliant with CE, FCC, UL and RoHS standards

	CBM	CBM 4MB Identlite	CBM 4MB Identplus
Verification	Yes	Yes	Yes
Identification 1:N	Yes	Yes	Yes
Number of users	500	3,000	5,000
Record capacity (templates)	1,000	6,000	10,000

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