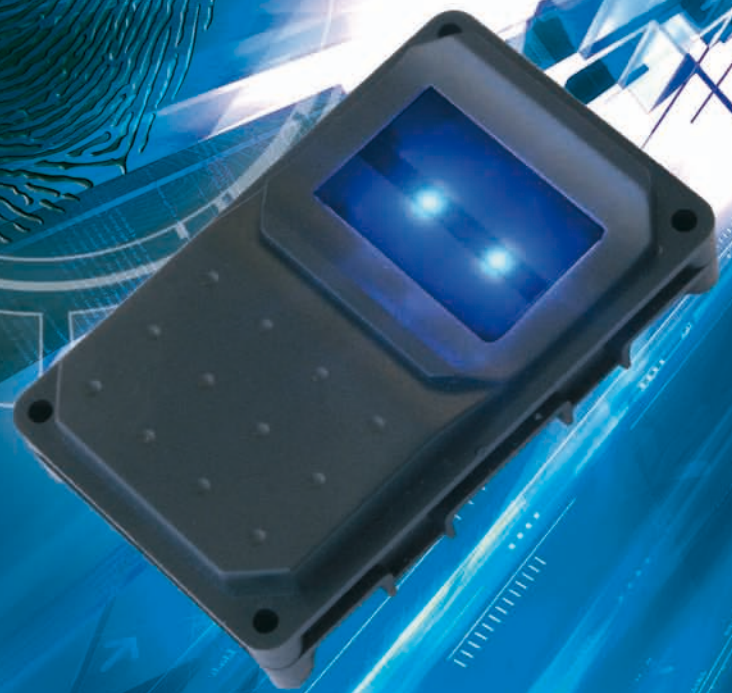# MORPHOSMART™ CBM-E

OEM ENHANCED FINGERPRINT MODULE

- FBI PIV IQS certified
- Quick integration of biometric functions
- High quality optical sensor
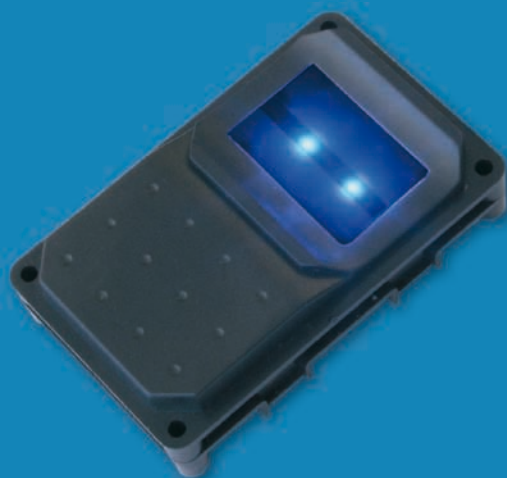- Excellent Identification performance
- Large database capacity
- FIPS 201 approved template generator & matcher

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MORPHOSMART™ CBM-E

OEM ENHANCED FINGERPRINT MODULE

Choose leading edge technology from the world leader in biometrics

The MorphoSmart™ CBM-E compact biometric device offers **high quality images** and features **FIPS 201** approved biometric algorithms, which are known worldwide for their levels of accuracy and performance, as well as their exceptional robustness. Whether used for off-the-shelf or custom-made applications, the MorphoSmart™ CBM-E offers a flexible, cost-effective solution for the fast and secure processing of high quality fingerprint images.

Smart and innovative applications with CBM-E

With the MorphoSmart™ CBM-E, you can offer rapidly and without specific knowledge of biometrics, the benefits of fingerprint identification to applications requiring compliance with the US government's Federal Information Processing Standard 201 — FIPS 201.

A world of advantages in a compact design

• Fast 1:1 authentication (0.9 sec) and 1:N identification (1 sec for 500 users)
• Large database up to 10,000 templates
• Choice of template format:
  Morpho proprietary ISO 19794-2 or ANSI/INCITS 378
• FBI PIV IQS certified
• 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
• Large capture area 14x22mm
  High-performance optical sensor (500 dpi)

• 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
• 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-E.
  Development on Linux platforms available upon request. ILV protocol also available.
• Compliant with CE, FCC, UL and RoHS standards

	CBM-E	CBM-E Identlite	CBM-E 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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