

IDENTIFICATION

MORPHOSMART™ CBM-E2

FBI PIV IQS CERTIFIED COMPACT BIOMETRIC MODULE



For a quick integration of biometric functions

High quality optical sensor

Excellent identification performance

Large database capacity up to 10 000 templates

FIPS 201 and MINEX compliant template generator and matcher

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FBI PIV IQS CERTIFIED COMPACT BIOMETRIC MODULE



Choose leading edge technology from the world leader in biometrics

The MorphoSmart™ CBM-E2 is Morpho's second generation of compact biometric module complying with the **FBI PIV IQS** standard, the worldwide reference in terms of single fingerprint image quality. The MorphoSmart™ CBM-E2 not only offers **high quality images** but features **FIPS 201** and **MINEX compliant 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-E2 offers a **flexible, cost-effective solution** for the fast and secure processing of high quality fingerprint images.

Smart and innovative applications with the MorphoSmart™ CBM-E2

With the MorphoSmart™ CBM-E2, one can offer rapidly and without specific knowledge of biometrics, the benefits of fingerprint authentication and 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

- **FBI PIV IQS certification** for fingerprint image quality
- **FIPS 201 and MINEX compliant** template generator and matcher
- **Large capture area** 14x22mm
High-performance optical sensor (500 dpi)
- **Fast one-to-one authentication** (0.9 sec) and **one-to-many identification** (1 sec for 500 users)
- Large database capacity up to **10,000 templates**
- **Versatile**, same device for enrollment and identification
- **Multiple formats** available:
Fingerprint images:
RAW, ISO 19794-4, WSQ-compressed (under license)
Fingerprint templates:
Morpho proprietary, ISO 19794-2, ANSI/INCITS 378
- **High accuracy**
The false acceptance rate (**FAR can be adjusted down to 10⁻⁸** depending on the required level of security)
Suitable for **juvenile fingers** processing
- **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**
USB or Serial TTL Open-Collector interface
- **Enhanced security features**
Two different security operating modes are available: data integrity check by the host - by way of a digital signature - or encrypted data exchange using secure tunneling
- **Comprehensive SDK** available for Windows XP, Vista, Seven, Server, CE/Mobile and Linux
- **Fully certified**
EMC/Safety standards: CE, CB, FCC, UL
RoHS, REACH and WEEE compliant

	CBM-E2	CBM-E2 IdentLite	CBM-E2 IdentPlus
VERIFICATION	Yes	Yes	Yes
IDENTIFICATION	Yes	Yes	Yes
NUMBER OF USERS	500	3,000	5,000
TEMPLATE CAPACITY	1,000	6,000	10,000

Morpho

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