

Compatible with  
Morpho and biOScrypt  
existing installations

# MORPHOACCESS® SIGMA SERIES

ACCESS CONTROL AND TIME & ATTENDANCE FINGERPRINT STATION



STILL THE WORLD'S BEST IN BIOMETRICS... AND SO MUCH MORE!

- Time & Attendance features
- Tablet-like user experience
- Videophone function
- Anti-fraud: fake finger & face detection, duress finger
- Full set of contactless technologies including NFC
- IP65 rated design

... and fast 1:100 000 identification!

 **WINNER**  
**Best in Biometrics, Identification and Credentialing**  
ISC West 2014

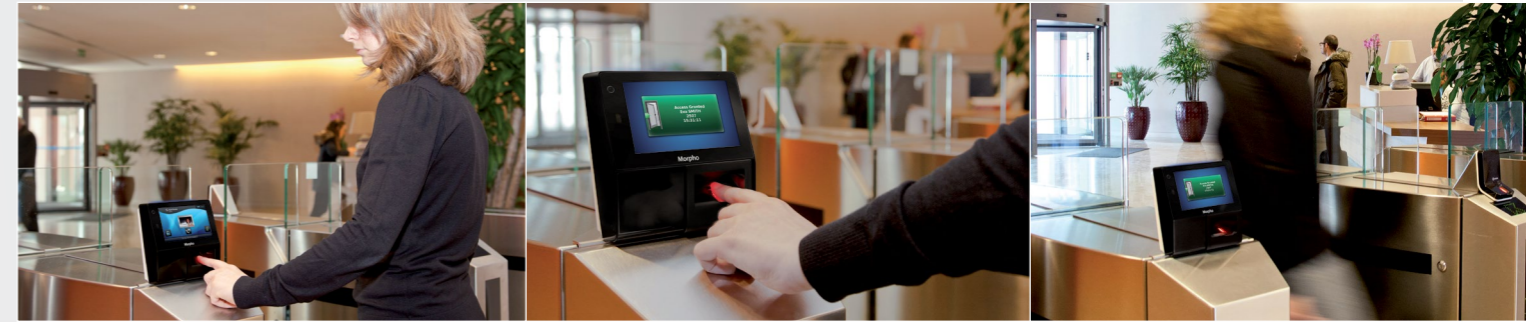


# MORPHOACCESS® SIGMA SERIES

## ACCESS CONTROL AND TIME & ATTENDANCE FINGERPRINT STATION

United in a team whose experience and skill level have no equivalent in the industry, experts from Morpho and Bioscrypt join forces to design the best of breed fingerprint identification terminal.

Tailored for both Access Control and Time & Attendance applications, the MorphoAccess® SIGMA (MA SIGMA) Series implements no fewer than 20 patents to master biometric identification and deliver a host of additional features, together with a refined and enjoyable user experience.



### Ultra-secure

The World's most accurate fingerprint technology is further enhanced with additional anti-fraud and anti-"buddy punching" features:

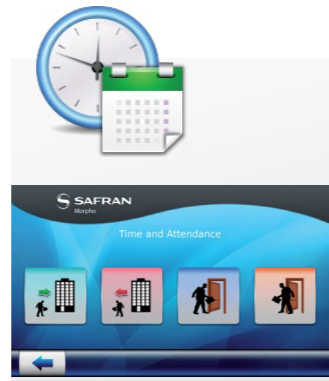
- Face detection and picture logging
- Fake finger detection
- Duress finger
- Banned/authorized user lists



### Fresh, intuitive, flexible User Interface

The MA SIGMA Series implements the design cues from today's most intuitive consumer electronics, for fast user adoption:

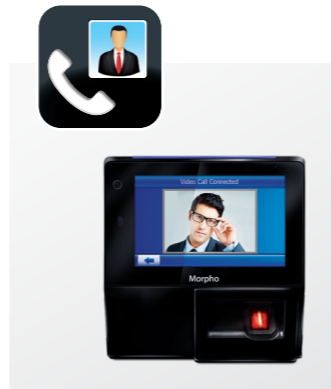
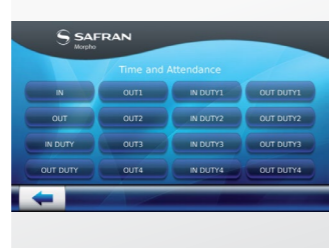
- 5" WVGA color touchscreen highlighting a sophisticated Graphic User Interface
- Seamless on-device administration
- Extensive customization capabilities: use your own content! (corporate video, audio messages, wallpapers etc.)



### Time & Attendance ready

Increase your workforce management efficiency with:

- Touchscreen Time Clock, featuring 16 programmable function keys
- Access time slots and holidays scheduling
- Accurate punch records (up to 1 Million logs storage capacity)
- Real-time employee notifications
- Job Code management



### Videophone function

- Built-in camera, speaker and microphone
- Standard IP-based video and audio interface
- Use cases:

- Call-in function: employees can quickly report a problem right from the Time Clock
- Surveillance: the terminal can be used by security staff to get pictures remotely from the security post



### World #1 Fingerprint Technology inside

- Morpho fingerprint technology ranked #1 by NIST for accuracy
- Genuine 1:100K matching<sup>(1)</sup>: World first in the industry
- 1:100K identification in less than 1 second (for frequent users)
- Exclusive optimizations tailored for access control
- Accuracy maintained regardless of number of users
- FBI PIV IQS certified optical sensor

<sup>(1)</sup> Search carried out against single 100K user database



### Multiple Recognition Factors

- NFC<sup>(2)</sup> technology support
- Full set of contactless smartcard options: Prox®, iClass®, MIFARE®, MIFARE® Plus, DESFire®
- PIN and BioPIN<sup>(3)</sup> codes

<sup>(2)</sup> NFC: Near Field Communication. Support depends on the smartphone model used with the MA SIGMA  
<sup>(3)</sup> BioPIN: alternate password solution instead of fingerprints



### Easy Set-up and Maintenance

- Built for the real World and designed to save time at installation and reduce maintenance costs:
- Flush mounted "quick-tilt" access
  - No need for extra-cable wiring: connectors are directly pluggable on rear side
  - On-device or remote IP-based set-up
  - Secure USB port located on the side of the product



### Compatible with Existing Installations

Upgrade or complement your installation with MorphoAccess® SIGMA devices using:

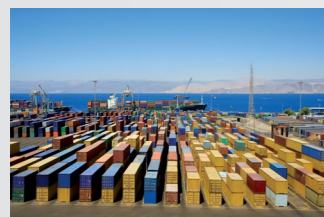
- MorphoManager application or MIK SDK on a Morpho network
- SecureAdmin application or SecureSDK on a Bioscrypt network

## TECHNICAL SPECIFICATIONS

- CPU: ARM® Cortex™-A9 core 1GHz
- Linux Operating System
- 5" WVGA color Touchscreen, VGA Camera
- Loudspeaker & Microphone
- Audio & Video player
- FBI PIV IQS certified optical fingerprint sensor
- Contactless reader options: Prox®, iClass®, MIFARE®/MIFARE® Plus/DESFire®/NFC<sup>(2)</sup>
- Network/Communication: Ethernet, RS485, RS422, USB (host & slave) Wi-Fi option
- Internal storage capacity: 512MB Flash, 512MB RAM + 8GB µSD Card
- 5000 user records (2 fingers + 1 duress each), extendable up to 100 000 with licenses
- 250 000 IDs in authorized user list
- 1 Million transaction logs
- 1 Million face picture logs
- Inputs/outputs: Wiegand In & Out (customizable up to 512 bits), Door Relay, 3 GPI (including Door monitoring), 3 GPO
- Power supply: 12V-24V DC Power over Ethernet (PoE) - Compatible with PoE+ switches
- Tamper switches
- Operating conditions:
  - Temperature: -20°C to 60°C (-4°F to 140°F)
  - Humidity: 10% to 80% (non condensing)
- Ingress Protection: IP65
- Compact with slim-profile: HxWxD = 153x151x58,5 mm (6x5,9x2,3 inches)
- Ultra-light: about 470 grams (depends on variant)
- EMC/Safety standards: CE, CB, FCC UL294 (for indoor use only)
- RoHS, REACh and WEEE compliant



## THE SIGMA FAMILY



## KEY MISSIONS, KEY TECHNOLOGIES, KEY TALENTS

### Morpho

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