



## Outdoor MorphoAccess™ 500 Series

***Fingerprint identification terminal  
for outdoor installation***

- IP65 weatherproof
- Fast, accurate and reliable
- Multifactor authentication
- Up to 50,000 users in 1:N identification mode
- Easy integration into existing systems
- Power-Over-Ethernet (POE)
- In option: integrated MIFARE® reader/encoder



**Sagem Sécurité**  
SAFRAN Group



# Outdoor MorphoAccess™ 500 Series

## Fingerprint identification terminal for outdoor installation

The Outdoor MorphoAccess™ 500 Series (OMA 500) are versatile biometric terminals intended for access control and time & attendance. They use the Sagem Sécurité proprietary algorithms, which have acquired worldwide reputation for their accuracy and levels of performance. Fast and network capable, they can address all security applications, from one-door control to the protection of buildings, warehouses, vast infrastructures and government agencies. OMA 500 offers value-added retailers and access control manufacturers a reliable, powerful and scalable solution.

### The know-how of the world N°1

- **Wide-area, accurate fingerprint sensor**, FBI certified, capable of withstanding harsh climatic environments
- The OMA 500 terminals offer the **highest level of security** on the market
- **Fast**: 0.7 sec in authentication mode and 0.9 sec in 1:1000 identification mode (including detection, coding and matching)
- **Accurate**: depending on the required level of security, the false acceptance rate (FAR) can be configured down to 10<sup>-8</sup>

### Powerful capabilities in a small package

- **IP65 certified** terminal mounted in a hardened, weatherized housing
- The **highest database capacity** on the market: up to 100.000 fingerprint templates stored, with extended license

- **Multifactor authentication**: with MIFARE® ISO 14443-A & B smart card reader/encoder, fingerprint and PIN code
- Operates in **standalone** or **networked** mode. For small populations, it is possible to capture fingerprints and encode badges on the terminal itself.
- Equipped with numerous interfaces for **easy integration into existing systems**
- **Trusted** and **versatile**
- **Option: false finger detection** with optronic sensor

### Software

- **MorphoAccess™ Enrolment & Management System (MEMS) Software**: complete application for centralized management (enrolment, terminals management, log editing, verification station)
- **Software Development Kit (SDK)**: can be proposed to VARs who want to develop and embed their own applications in the terminal.
- **Morpho Integrator's Kit (MIK)**: enables integrators to interface rapidly their own proprietary Windows based applications to the MA 500 Series.

### Technical specifications

#### MorphoAccess™ unit

- Integrated 500 dpi MorphoSmart™ sensor 23x23mm
- Backlit LCD graphical display 128x64 pixels
- Backlit keypad with 12 Keys + 4 programmable function keys
- Buzzer and bi-color LEDs
- Dual-core ARM 9 microprocessors with multi thread processing capability

#### Interfaces

- Communication port for identifier management: customizable Wiegand IN & OUT, RS.485, Clock & Data IN & OUT, Ethernet (10/100 Base T)

#### Database

- From 3,000 to 50,000 people, two fingerprints each, split up into five databases of 10,000 individuals each (option, capacity submitted to 50K MA-Xtended license)

#### Security

- SSL on TCP/IP network
- SAM internal cryptographic key management
- Secure screws, antitheft anti-tamper switches

#### Certifications

- PIV-IQS\* by the FBI, FIPS 201, IP 65
- Complies with standards: CE, UL

#### Voltage supply

- 9V, 16V (350 mA typical @ 12V) or 15.4W Power Over Ethernet (POE)

#### Physical characteristics

- Dimensions: LHD: 218x289x99mm
- Weight: 2kg

|                             | OMA 520   | OMA 521                           |
|-----------------------------|---|-----------------------------------|
| Contactless reader/encoder  | MIFARE® 1K & 4K   | MIFARE® 1K & 4K                   |
| Database size               | 3K or 50K with MA-Xtended license                                       | 3K or 50K with MA-Xtended license |
| Fake Finger Detection       | No  | Yes                               |
| Multi-factor authentication | BIO, Card, Card+BIO, PIN+BIO, Card+PIN, Card+PIN+BIO, Card+PIN+BIOPIN** |                                   |

\* PIV-IQS Personal Identify Verification-Image Quality Specifications

\*\* BIOPIN alternate password solution instead of fingerprints

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