



PRELIMINARY

OUTDOOR MORPHOACCESS™

- Weatherized for outdoor use
- 1:1 authentication & 1:N identification up to 50,000 users
- Multi-factor authentication
- Plug & play solution for PACS
- ISO 14443-A & B contactless reader (FIPS 201)
- Stand-alone or networked operation
- Power Over Ethernet
- FBI PIV-IQS approved fingerprint sensor



Sagem Défense Sécurité
SAFRAN Group



PRELIMINARY

OUTDOOR MORPHOACCESS™

Finger identification for physical access control

Most physical access control systems in use today are based upon proximity cards or identification numbers. Unfortunately, this technology does not prevent individuals from using someone else's card or ID to enter a restricted area. Biometric technologies are extensively used to provide strong user authentication and avoid this type of security breach. Combined with contactless smart cards, biometric readers also allow multi-factor user authentication, thus reinforcing the system's overall level of security.

The MorphoAccess™ 500 series features a new range of indoor/outdoor biometric and contactless smart card terminals versatile enough to address a wide range of application from legacy or new access control systems to stand alone and governmental programs.

All the OMA 500 models operate in identification mode and offer a storage capacity of two biometric templates per person from 3,000 to 50,000 individuals broken down in 5 databases of 10,000 each. The OMA 500 models are capable of reading contactless smart cards for 1:1 verification. The biometric data can be either stored on the card or on the terminal. In the latter case, the card ID is used to screen the database on the MA and retrieve the corresponding biometric templates. The device can read ISO 14443-A & B cards (Contact SAGEM for more information). The OMA521 model integrates an optronic sensor, a SAGEM DS patented technology that make possible the detection of fake fingers. This feature may be interesting in high secured environment or when the terminal is left unsupervised.

The whole OMA 500 range offers standard interfaces to return the ID to the host system. The terminal can be used in either stand-alone or networked mode. When networked it can either operate in proxy or application mode. In proxy mode, the terminal is dependent on a host controller that sends commands according to the Morpho® Host System Interface protocol. In application mode, the terminal manages the operation workflow either for physical access control or time & attendance. In both modes the remote terminal management is possible through TCP/IP or USB. Terminal management includes, log retrieval, terminal configuration setup, firmware upgrade, biometric database operations, etc.

With the **MorphoAccess Easy Setup** MorphoAccess terminals are easily configured.

Software

The MEMS application release 6.2 or higher (MorphoAccess™ Enrolment & Management System), which is a complete solution for centralized management in legacy or stand-alone systems, supports the entire MA terminal range. We also offer integrators who develop their own system the Morpho Integrator's Kit (MIK).

MorphoAccess SDK

A Software Development Kit can be proposed to VARs who want to develop their own embedded application (Contact us for more information).

Technical specifications

- Integrated 500 dpi MorphoSmart™ sensor 23x23mm, **FBI PIV-IQS certified**
- Backlight LCD graphical display 128x64 pixels
- Backlight keypad with 12 Keys + 4 programmable function keys
- Buzzer and bi-color LEDs
- Communication port for IDs management: **customizable** Wiegand IN & OUT, RS.422, Data & Clock IN & OUT, Ethernet (10/100 Base T)
- Relay one change over contact
- Anti theft switches, secured screws
- Build-in SAM reader
- SSL (Contact SAGEM for more info)
- ISO14443-A and B contactless smart card readers (**FIPS 201 certification pending**)
- Operating temperature: -10° to +50°C
- Complies with EN60950, EN55022, FCC part 15 and EN55024, EN300330-1 and 2, CE, UL 60950 (certification pending).
- IP65 rated
- Supply Voltage: 9V, 16V (250mA typ @ 12V) or Power Over Ethernet (POE)
- Dimensions: 218mm x 289mm x 99mm
- SDK for VARs

Performances:

- **FIPS 201 approved biometric algorithms**
- 1:1 verification time < 1sec
- Identification time (1,000 records) < 1s
- Adjustable FAR according to security requirements down to 10⁻⁵
- Manages up to 10,000 users in identification mode
- Max storage capacity = 50,000 users.

	OMA 520	OMA 521
Contactless reader	MIFARE 1K & 4K	MIFARE 1K & 4K
Database size	3K or 50K	3K or 50K
Fake Finger Detection	No	Yes
Multi-factor authentication	BIO, ID+BIO, Card, card+BIO, Card+PIN, Card+BIO+PIN, card+BIOPIN+PIN	

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