



TEMPO REAL

GESTÃO DE ASSIDUIDADES
PARA MAIS INFORMAÇÕES

LIGUE
 707 450 250

OU VISITE
WWW.TEMPOREAL.PT
WWW.NETCAOS.PT



Biometrics in Action

Outdoor MorphoAccess™ 520

Fingerprint identification for outdoor physical access control

- Weatherized to meet IP65 standards
- Completely self-contained, no additional housing required for outdoor use
- 1:1 authentication & 1:N identification for up to 50,000 users
- Built-in applications for Physical Access Control & Time & Attendance
- Optional ISO 14443-A & B contactless reader (FIPS 201)
- Available application software development tools
- FBI PIV-IQS approved fingerprint sensor
- Multi-factor authentication
- Plug & play solution for PACS
- Power Over Ethernet

NETCAOS
software



Sagem Morpho Inc.
SAFRAN Group



Outdoor MorphoAccess™ 520

Fingerprint identification for outdoor physical access control

The Outdoor MorphoAccess™ 520 Series sets the benchmark for outdoor performance, versatility, and ease-of-development. This fully integrated biometric terminal is completely self-contained; it does not require any additional housing for outdoor use! The terminal's high performance results from its dual-core ARM9 microprocessor with multi-thread processing capabilities; its FBI IQS and FIPS 201 approved biometrics; and storage capacity for up to 50,000 records. For versatility, Ethernet, USB, RS-422, and several PACS connectivity options are included. Also, Physical Access Control, Time & Attendance, and terminal management applications are on-board. VARs and integrators will find it easy to develop programs using available software development kits for both PC and embedded applications. Finally, installation is easy and costs less using the MA520 Series Power-Over-Ethernet feature.

The MorphoAccess™ 500 series features a new range of indoor and outdoor biometric and contactless smart card terminals so versatile that it addresses a wide range of applications from legacy or new access control systems to stand-alone use and governmental programs.

All the MA500 models operate in identification mode (1:N) and offer a storage capacity of two biometric templates per person. All models are supplied with a biometric user data base that provides for 1:3,000 users. A software license is available that expands the biometric user data base to 1:50,000 users. The 50,000 users are accessed in 5 data bases of 10,000 users each.

The OMA520 models also offer the possibility of reading contactless smart cards for 1:1 verification. The biometric data can either be stored on the card or on the terminal. In the latter case, the card is used to screen the MA database and retrieve the corresponding biometric templates. The device can also read ISO 14443-A & B cards (Contact us for more information).

The OMA521 model integrates a specific optronic sensor, based on Sagem patented technology, for fake finger detection. This may be of great interest in highly secure environments or where the terminal is left unsupervised.

The entire MA 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. In stand-alone mode, it is capable of operating independently of a host computer activates its own internal relay. When networked, it can operate in either 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 serial RS-232 or RS-485. Terminal resident software management tools includes: log retrieval, terminal configuration setup, firmware upgrade, biometric database operations, and MorphoAccess™ Easy Setup.

Software

The MEMS application release 6.2 or higher (MorphoAccess™ Enrollment & Management System), is a complete solution for centralized management in legacy or stand-alone systems. It supports the entire MA terminal range. Additionally, the available Morpho Integrator's Kit (MIK) provides the tools for the development of customized host resident biometric access control and time and attendance applications.

Standard Features

Ergonomics

- Backlight LCD graphical display 128x64 pixels (programmable)
- Backlight keypad with 12 Keys + 4 programmable function keys (programmable)
- Audio alert and multi-color LEDs (programmable)

Physical Characteristics

- Dimensions: 8.6 in. x 11.4 in. x 3.9 in. (218 mm x 289 mm x 99 mm)
- Electrical connections by internal termination with locking screws, RJ45 and USB Host connectors, and pre-installed IP65 rated pig-tail cables.

Regulatory Approvals

- Complies with EN60950, EN55022, FCC part 15 class B and EN55024, EN300330-1 and 2, CE, UL 60950 (certification pending).

Languages Supported

- English, French, Spanish, Italian, German, and Portuguese
- Other languages may be loaded

Terminal Resident Software Tools

- Terminal Management Software
 - Used to assist in development and ongoing maintenance.
- MorphoAccess™ Easy Setup
 - A terminal embedded assistant that allows quick configuration directly on the terminal.

Operating Characteristics

Environment

- Protection Classification 65 (IP65) rated: Sealed against dust and protected against water jet.
- Operating temperature: 14°F to 122°F (-10°C to +50°C)
- Electrical Supply Voltage: 9V, 16V (250mA typical @ 12V)
- Power-Over-Ethernet (POE)

Communication Interface Capabilities

- Port for ID card access control management
 - Customizable Wiegand IN & OUT, RS-422, Data & Clock IN & OUT
- Ports for terminal communications
 - Ethernet 10/100 BaseT with DHCP via RJ45 connector or interface board
 - USB Host connector on motherboard for database, firmware, and configuration uploading.
 - Authentication controlled relay : Low voltage N.O. or N.C. configurable

Security Features

- Multi-factor authentication using combinations of finger scan authentication, PIN and smart card information- Tamper & antitheft switches with terminal resident relays, security enclosure screws. Status available via terminal communications ports- Built-in SAM reader (Contact us for more information)- SSL (Contact us for more information)- Contactless smart card reader (Model 520)
 - ISO14443-A and B contactless smart card (FIPS 201 certification pending)- Fake Finger Detection & Contactless smart card reader (Model OMA521)

Biometric Characteristics

- Integrated 500 dpi MorphoSmart sensor 0.9 in x 0.9 in. (23 mm x 23 mm)
- FBI PIV-IQS certified
- FIPS 201 approved biometric algorithms
- Template extractor and template matcher MINEX certified
- 1:1 verification time < 1 sec
- Identification time (1,000 records) < 1s
- Adjustable FAR according to security requirements
- Manages up to 10,000 records in identification mode
- Max storage capacity: 50,000 records (5 databases of 10,000 records each with optional license)

Available Software Applications and Development Tools

- MorphoAccess™ Enrollment & Management System (MEMS) application release 6.2 or higher
 - MEMS a complete solution for centralized management in legacy or stand-alone systems, it supports the entire MA terminal range.
- Morpho Integrator's Kit (MIK) release 3.2 or higher
 - Used to develop Windows based applications, includes Windows DLLs.

	OMA 520	OMA 521
Contactless reader	MIFARE 1K & 4K	MIFARE 1K & 4K
Database Size	3k or 50K with Optional license	3k or 50K with Optional license
Fake Finger Detection	No	Yes
Multi-factor Authentication	Bio, ID+Bio, Card, Card+Bio, Card+Pin, Card+Bio+Pin, Card+BioPin+Pin	