

# Outdoor MorphoAccess® 500 Series



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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)
- Integrated MIFARE® and DESFire® reader/encoder



# 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 Morpho 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® and DESFire® ISO 14443-A & B smart card
- 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 OMA 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)

#### Environmental conditions

- Operating temperature: -10° to +50° C
- Relative humidity: from 0 to 90% without condensation
- Waterproof, anti-dust protection: IP65 certified

#### Security

- SSL on TCP/IP network
- Secure screws, antitheft and 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 D	OMA 521 D
Contactless reader/encoder	MIFARE® 1K & 4K, DESFire® 2K, 4K, 8K	MIFARE® 1K & 4K, DESFire® 2K, 4K, 8K
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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