OUTDOOR MORPHOACCESS®
500 SERIES
FINGERPRINT IDENTIFICATION TERMINAL
DESIGNED FOR OUTDOOR ACCESS CONTROL

- IP 65 weatherproof
- Fast, accurate and reliable
- Multifactor authentication
- Up to 50,000 users in one-to-many identification mode
- Easy integration into existing systems
- Power-Over-Ethernet (POE)
- Integrated MIFARE® and DESFire® reader/encoder
The Outdoor MorphoAccess® 500 Series (OMA 500) are versatile biometric terminals intended for access control and time & attendance. They use Morpho's 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.

They offer 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 PIV IQS 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 10⁻⁸

**Powerful capabilities in a small package**
- **IP 65 rated** terminal mounted in a hardened, weatherized housing
- The **highest database capacity** on the market: up to 100,000 fingerprint templates stored, with license
- **Multifactor authentication**: with MIFARE® and DESFire® ISO 14443-A & B smartcard reader/encoder, fingerprint and PIN code
- Operates in **standalone** or **networked** modes. 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

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

**Technical specifications**

**MorphoAccess® unit**
- Integrated MorphoSmart™ sensor 23x23mm, 500 dpi
- LCD graphical display 128x64 pixels
- Keypad with 12 Keys + 4 programmable function keys
- Buzzer and LED
- Dual-core ARM 9 microprocessors with multi-thread processing capability

**Multiple interfaces**
- Communication port for identifier management: customizable Wiegand IN & OUT, RS 485, RS 422, Clock & Data IN & OUT, Ethernet (10/100 Base T), Wi-Fi in option

**Large 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 MA-Xtended license)

**High security level**
- SSL on TCP/IP network
- Secure screws, antitheft and anti-tamper switches

**Environmental conditions**
- Operating temperature: -10° to +50° C
- Relative humidity: from 10 to 80% without condensation
- Waterproof, anti-dust protection: IP 65 rated

**Certifications**
- PIV IQS® by the FBI, FIPS 201
- CE and FCC compliant

**Voltage supply**
- 9V to 16V (350mA typical @ 12V) or **Power Over Ethernet** (POE)

**Physical characteristics**
- Dimensions: LxHxD: 218x289x99mm
- Weight: 2kg

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<thead>
<tr>
<th></th>
<th>OMA 520 D</th>
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<tbody>
<tr>
<td>Contactless reader/encoder</td>
<td>MIFARE® 1K &amp; 4K, DESFire® 2K, 4K, 8K</td>
<td></td>
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<tr>
<td>Database size</td>
<td>3K or 50K with MA-Xtended license</td>
<td>Yes</td>
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<tr>
<td>Fake Finger Detection</td>
<td>No</td>
<td>Yes</td>
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<tr>
<td>Multi-factor authentication</td>
<td>BIO, Card, Card+BIO, PIN+BIO, Card+PIN, Card+PIN+BIO, Card+PIN+BIOPIN**</td>
<td>**BIOPIN alternate password solution instead of fingerprints</td>
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* PIV-IQS Personal Identity Verification - Image Quality Specifications
** BIOPIN alternate password solution instead of fingerprints