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
OUTDOOR MORPHOACCESS® 500 SERIES

FINGERPRINT IDENTIFICATION TERMINAL

DESIGNED FOR OUTDOOR ACCESS CONTROL

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

OMA 520 D

- Contactless reader/encoder
- MIFARE® 1K & 4K, DESFire® 2K, 4K, 8K
- Database size
- 3K or 50K with MA-Xtended license
- Fake Finger Detection
- No
- Multi-factor authentication
- BIO, Card, Card+BIO, PIN+BIO, Card+PIN, Card+PIN+BIO, Card+PIN+BIOPIN**

OMA 521 D

- Contactless reader/encoder
- MIFARE® 1K & 4K, DESFire® 2K, 4K, 8K
- Database size
- 3K or 50K with MA-Xtended license
- Fake Finger Detection
- No
- Multi-factor authentication
- BIO, Card, Card+BIO, PIN+BIO, Card+PIN, Card+PIN+BIO, Card+PIN+BIOPIN**

* PIV-IQS Personal Identity Verification - Image Quality Specifications
** BIOPIN alternate password solution instead of fingerprints

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