

PIV/CAC Biometric Reader



**GSA FIPS 201 Certified
CHUID Reader
for Entire FASC-N**

Outdoor MorphoAccess™ PIV/CAC Reader

- Most accurate, interoperable biometric reader on GSA FIPS 201 APL*
- Supports PIV and CAC End-Point Credentials
- FBI approved fingerprint sensor
- PIV IQS certified fingerprint sensor
- FIPS 201 approved template generator and matcher
- Exceeds standard for image quality specified by NIST, BIMA, FBI
- Morpho fingerprint image enhancement
 - Filter, correct effects of dirt, grease, scars
- Ruggedized to meet IP65 standards
 - Completely self-contained, no additional housing required for outdoor use
 - Extreme low temperature rated to -40 F
- PIV card authentication capabilities using
 - PIV CHUID, PIV Biometric, PKI, CAK

* NIST MINEX Test Results 2004 to Present



www.morphotrak.com

**SAFRAN**
MorphoTrak



Outdoor MorphoAccess™ PIV/CAC

Fingerprint identification for outdoor physical access control to meet HSPD 12 requirements

The **Outdoor MorphoAccess™ 520 PIV/CAC** sets benchmarks for performance and versatility. The terminal features dual-core ARM9 microprocessors with multithread processing capabilities, providing unmatched performance.

MorphoAccess™ outdoor PIV terminals (OMA PIV/CAC) are available in three models featuring **Morpho fingerprint image enhancement**, **MorphoSmart™ Optic technology**, and firmware that utilizes **NIST certified algorithms** for template generation and matching. This provides end users better performance in terms of throughput and reduced false rejection rates in day to day access to gates and doors in any environment.

MorphoAccess™ PIV/CAC terminals are the product of **thirty-five years of continuous improvement measures** which include engineered improvements to both the biometric sensors and algorithms for :

- Correction of finger rotation
- Patented fake finger detection
- Identification, filtering and repair of false minutiae points (dirt, grease, scars, wrinkles, cuts, foreign objects)
- Identification and filtering of latent prints that build up on the biometric sensor

OMA PIV models may be ordered with or without **fake finger detection** and feature firmware designed to execute PIV and CAC workflow in a physical access environment (OMA 520 and 521 PIV/CAC).

The OMA 520/521 PIV/CAC reader is a 7th year / 3rd generation **Ruggedized** Outdoor Reader, **IP65 rated** for outdoor use and impervious to dust, water, ice, and snow. An extreme cold weather option that provides reliable operation in environments down to **-40 F** is also available.

MorphoAccess™ terminals are compliant with ARRA/Buy American Act.

Standard Features

Ergonomics

- Backlit LCD graphical display 128x64 pixels
- Backlit keypad with 12 Keys + 4 programmable function keys
- Buzzer and bi-color LEDs

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, plus RJ45 and USB host connectors

FIPS201 Compatible Software

- PIV Connect
 - Card registration to ODBC compliant database
 - Requires interface to PACS enrollment
- PIVCheck Plus
 - Card registration to PACS enrollment database
 - Supports all major PACS systems
- Software Development Kit
 - Sample code and tools to read FIPS201 card and save data read card in user defined format

Operating Characteristics

Environment

- Standard operating temperature: 14 F to 122 F (-10 C to +50 C)
- Extreme low temperature option -40 F to 122 F
- Electrical supply voltage: 9V, 16 V (250mA typical at 12 V)
- Power-Over-Ethernet (POE)
- Outdoor model available (OMA PIV/CAC)

Communication Interface Capabilities

- Port for ID card management
- Customizable Wiegand IN & OUT, RS-485, RS-422, Data & Clock IN & OUT Ports for terminal communications
- Ethernet 10/100 BaseT with DHCP via RJ45 connector or interface board
- Wireless LAN (WIFI)
- USB connector on motherboard
- Relay: Low voltage N.O. or N.C. configurable

Regulatory Approvals

- Complies with EN60950, EN55022, FCC part 15 and EN55024, EN300330-1 and 2, CE, UL 60950

Security Features

- Tamper & anti-theft switches, secured screws. Status available via terminal communications ports.
- Built-in SAM reader (Contact us for more information)
- SSL (Contact us for more information)
- Fake Finger Detection

Biometric Characteristics

- MorphoSmart™ Optic sensor 500 dpi resolution 0.9 in x 0.9 in (23mm x 23mm)
- GSA APL Classification CHUID Reader
- FBI PIV IQS Certified
- FIPS 201 approved biometric algorithms
- Template extractor and template matcher MINEX certified
- 1:1 verification time <1sec
- Identification time (1,000 records) <1sec

	OMA 520 PIV/CAC EP	OMA 521 PIV/CAC EP
Contactless reader	PIV,CAC EP, MIFARE	PIV,CAC EP, MIFARE
Contact Reader (Available Summer 2010)	PIV, CAC EP	PIV, CAC EP
Fake Finger Detection	No	Yes
Low Temperature Option	Yes	Yes
Multi-factor Authentication	Card + BIO, Card + PIN, Card + BIO + PIN, Card + BIOPIN + PIN	
Product Numbers	MA00-05200E-P	MA00-05210E-P

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