

# PIV/CAC Biometric Reader



## MorphoAccess™ PIV/CAC Reader

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

- 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
- PIV card authentication capabilities using
  - PIV CHUID, PIV Biometric, PKI, CAK

\* NIST MINEX Test Results 2004 to Present



[www.morphotrak.com](http://www.morphotrak.com)



**MorphoTrak**  
SAFRAN Group



# MorphoAccess™ PIV/CAC

Fingerprint identification for physical access control to meet HSPD 12 requirements

The 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™ PIV terminals (MA 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.

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

MA 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 (MA 520 and 521 PIV/CAC).

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: 5.7 in x 6.3 in x 3.0 in (145mm x 160mm x 75mm)
- Electrical connections by internal termination with locking screws, plus RJ45 and USB host connectors

### Software Development Kit (SDK)

- Card registration to PACS enrollment database

### Operating Characteristics

- Environment
- Standard operating temperature: 14 F to 122 F (-10 C to +50 C)
  - 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

	MA 520 PIV/CAC EP	MA 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
Multi-factor Authentication	Card + BIO, Card + PIN, Card + BIO + PIN, Card + BIOPIN + PIN	
Product Numbers	MA00-05200B-P	MA00-05210B-P

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