

TWIC Biometric Reader



MorphoAccess™ I20W TWIC Reader

Fingerprint identification for physical access control for FIPS 201

- TWIC Capable card reader
- GSA APL classification: CHUID reader
- 1:1 & Multi-factor authentication
- Multi-factor authentication
- Plug & play solution for legacy system
- ISO 14443 contactless card reader
- Stand-alone or networked



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MorphoTrak
SAFRAN Group



MorphoAccess™ I2OW TWIC Reader

Fingerprint identification for physical access control to meet TWIC requirements

The MorphoAccess 120W TWIC sets benchmarks for performance and versatility. This fully integrated biometric terminal is completely self-contained.

The MA 120W TWIC reader is a 7th year / 3rd generation Reader among more than 650,000 biometric access control readers installed worldwide. In addition, MorphoTrak technology manages 2.5 Billion fingerprints worldwide.

MA 120W TWIC Firmware, certified by the TSA TWIC Program, is capable of using the TWIC Privacy Keys from the card to decrypt the encrypted biometric read from the contactless interface. The terminal's high performance results from: its dual-core ARM9 microprocessor with multi-thread processing capability; its GSA APL certification as a Contactless CHUID reader, and its FBI PIV IQS and FIPS 201 approved biometric sensor. For versatility, the following communication options are available: Ethernet, WIFI, RS-485, RS-422, and a configurable Wiegand output to send 75 bits to 250 bits of the FASC-N.

MorphoAccess TWIC terminals (MA TWIC) featuring MorphoMaging, 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 + TWIC terminals are the product of thirty-five years of continuous improvement measures which include engineered improvements to both the biometric sensor and algorithms for:

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

MA TWIC models may be ordered with or without fake finger detection and feature firmware designed to execute TWIC workflow, as defined in the TSA TWIC Reader specifications in a physical access environment.

Standard Features

Physical Characteristics

- Dimensions: 5.6" x 3.3" x 2.5" (142mm x 84mm x 63.5mm)

Software Development Kit (SDK)

- TWIC card registration to PAC enrollment database

Operating Characteristics

Environment

- Standard operating temperature: 14 F to 122 F (-10 C to +50 C)
- Electrical Supply Voltage: 9V, 16V (250mA typical @ 12 V)
- Power-Over-Ethernet (POE)

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 Host 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 & Contactless smart card reader (Model MA 521)

Biometric Characteristics

- Integrated 500 dpi MorphoSmart sensor 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

	MA521 TWIC	OMA 521 TWIC	MA120W TWIC
Contactless reader	ISO 14443	ISO 14443	ISO 14443
Database Size	3k or 50K with Optional license	3k or 50K with Optional license	3k or 50K with Optional license
Fake Finger Detection	Yes	Yes	Yes
TWIC Compliant Firmware	Yes	Yes	Yes
De-Cryption with TPK	Yes	Yes	Yes
Active Card Authentication	Yes	Yes	

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