

PIV/CAC Biometric Reader



MorphoSmart™ Optic 350 PIV

Fingerprint identification for physical access control for FIPS 201

- GSA APL for Transparent Reader and Single Fingerprint Capture

PIV Applications

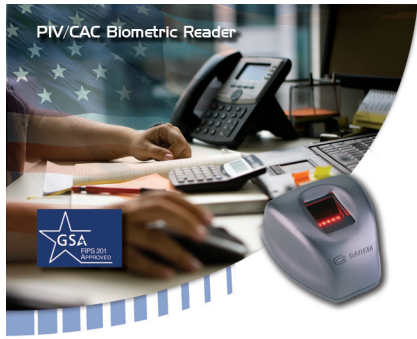
- PIV card issuance
- ID check; as an add-on device for use at attended portals
- Logical Access: PC and network access control



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MorphoTrak
SAFRAN Group



MorphoSmart™ Optic 350

Fingerprint identification for physical access control for FIPS 201

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To achieve the mandates set forth by HSPD-12 for Federal employee and contractor identification, the National Institute of Standards and Technology was instructed to craft a standard for secure and trusted identification. As a result, the FIPS-201 Personal Identity Verification standard was created.

Applying its experience in biometric Identity Management solutions already in use in 70 countries worldwide, MorphoTrak is ready to meet the challenge of the Personal Identity Verification (PIV) program with the introduction of the MorphoSmart™ Optic 350 PIV Biometric terminal.

MorphoSmart™ PIV

The MorphoSmart™ PIV is a self-contained device designed for template processing, verification and identification against an internal database managed by the device. Featuring a PC/SC* smart card reader via USB interface, the MSO PIV is well suited for the desktop PC environment. The MSO PIV is supported by the MorphoKit™, which includes PC software for image capture, template processing, authentication and identification of up to 1:20,000 persons. This product integrates user indicator lights to guide and inform users about ongoing operations. A Software Development Kit (MorphoSmart™ SDK) enables VARs to develop custom applications carried out on PC platforms.

Security features

The MSO PIV combines in one device the technologies of biometric authentication and Public Key Infrastructure (PKI) to offer a truly secure solution for positive person authentication. Compatible with existing X.509 PKI, this security layer offers a solution to the problems of data integrity control and privacy protection. The certification path and private key are loaded in the MSO via a secure token generated by a Key Management System (KMS). All biometric data are encapsulated in an X9.84 biometric token.

MorphoTrak offers PIV compliant biometric products, from GSA approved algorithms and biometric capture to "smart" physical and logical access control readers. Please find our suite of PIV products at :

http://www.morphotrak.com/MorphoTrak/MorphoTrak/IM/mt_FIPS_201.html

* PC/SC is a specification for SmartCard integration in the computing environment.

Technical Specifications

PIV compliant fingerprint processing unit

- GSA APL product name: MSO 350 PIV.
- GSA APL list: <http://159.142.162.84/apl.php>
- GSA APL classification: Transparent Reader
- FBI certified single fingerprint capture device
- Security: PKI ensuring data integrity and privacy protection
- Smart card reader: PC/SC compliant
- Interface: USB
- Embedded database: Up to 2,000 in identification mode

PIV Applications

- PIV card issuance
- ID check: as an add-on device for use at attended portals
- Logical Access: PC and network access control

Biometric features

- The MSO includes embedded software/firmware components integrating the Sagem algorithms:
 - GSA approved and MINEX certified template generator and matcher
 - MorphoImaging™ optimizes acquisition and pre-processing image quality
 - MorphoSoft™ Embedded performs all functions for template extraction (fingerprint image processing) and fingerprint authentication or identification.
- Local database management of 100 2-fingerprint records. When the optional MorphoSmart™ IDENTLITE license is loaded, the MSO can manage up to 2,000 records in identification mode.

Technical specifications

- Fingerprint sensor
 - High quality FBI certified optical sensor
 - 500 dpi resolution, 416 X 416 pixels
 - 87" X .87" (22mm x 22mm) sensor area
 - FBI Certified list: <http://www.fbi.gov/hq/cjisd/iafis/cert.htm>
 - FBI list product name: MSO 350
- Biometrics
 - Verification time < 1 sec
 - Identification time (2,000 records) < 2 sec
- Smart Card Contact Reader
 - Conforms to Personal Computer/ Smart Card (PC/SC) specification for Reader-to-host system interface in general desktop computing environment.
 - Smart card interface is C CID compliant
 - Smart card interface is compliant to ISO 7816 parts 1, 2, 3, and 4
- Operating Temperature
 - 32 F to 104 F (0°C to 40°C)
- Power consumption
 - Less than 2.5W
- Dimensions & Weight
 - MSO 350 PIV 3.6 x 3.1 x 2.3 in (9.1 x 8.0 x 5.9cm), 10.0 oz (284g, PC-ABS)
- Connections
 - MSO 350 PIV, 1.5 m USB cable
- Processor
 - Powered by an ARM9™ family CPU core.
- Software
 - Microsoft® Windows 2000, and XP Platforms.

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