

OUTDOOR MORPHOACCESS™ 520 DUAL CARD READER

FIPS 201 BIOMETRIC READER

FAST, ACCURATE AND RELIABLE

MULTI-FACTOR AUTHENTICATION



GSA FIPS 201 APL's most accurate and interoperable biometric reader*

Meets authentication assurance levels defined by SP800-116

GSA FIPS 201 certified CHUID reader for entire FASC-N

FBI PIV-IQS and FIPS 201 certified fingerprint sensor

FIPS 201 approved template generator and matcher

IP 65 weatherproof

*NIST MINEX Test results 2006-Present

Morpho is a leading innovator in large fingerprint identification systems, facial, tattoo, DNA and iris recognition. With over 35 year's experience, Morpho has unsurpassed accuracy in US government benchmark testing, captured more than 3 billion fingerprints, deployed over one million fingerprint readers and it's products are used by more than 450 government agencies in over 100 countries.

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A Host of Features:

- World's most refined, accurate and trusted fingerprint algorithms
 - #1 Rated Interoperable Fingerprint Matching Algorithm (NIST MINEX Test)
 - #1 Rated Proprietary Fingerprint Matching Algorithm (NIST PFT Benchmark Test)
 - #1 Rated Fingerprint MOC Algorithm (NIST MINEX II)
 - #1 Rated Latent Fingerprint Matching Algorithm (NIST ELFT-EFS Test)
- MorphoSmart™ Optic Fingerprint Sensor
- Morpho fingerprint image enhancement
 - Filters and corrects the effects of dirt, grease, moisture and cuts
- Fake Finger Detection for Liveness Detection
- Integrated Contact and Contactless smartcard reader
- Selective output of all FASC-N elements via Wiegand including expiration date, GUID, ICI and CI
- PIV Card Authentication
 - CHUID (Unsigned CHUID)
 - CHUID (Authenticated)
 - CAK Authentication
 - Biometric Authentication
 - PKI (Active Card Authentication for PIV)
 - CAK + Biometric
 - PKI + Biometric

- TWIC Card Authentication
 - Signed CHUID Verification
 - Unsigned CHUID Verification
 - Active Card Authentication
 - CHUID + Biometric Verification
 - CHUID signing certificates + Active Card Authentication + Biometric Verification
- Match-On-Card (MOC)
- Secure data communication using Secure Socket Layer (SSL)
- Dual-core ARM9 microprocessor, with multi-thread processing, providing unmatched performance
- Power over Ethernet (POE)
- LCD graphical display
- Ruggedized Backlight keypad
- Networkbased reader management
- Seamless integration into existing PACS and network environments
- Data COM via Ethernet with DHCP, LAN or WAN through gateways and subnets, RS422, RS485, Wi-Fi
- Capable of withstanding harsh climatic environments

MorphoAccess™ readers are compliant with TAA, ARRA/Buy American Act



Outdoor MorphoAccess™ 520 Dual Card Reader:

- Dimensions**
 - 218x289x99mm
- Communication Interface Capabilities**
 - Port for ID Card Management
 - Customizable Wiegand (26-256 bit), RS485, RS422, Clock & Data
 - Port for Terminal Configuration
 - Ethernet (10/100 Base T) with DHCP
 - Wireless LAN (Wi-Fi)
 - LAN or WAN through gateways and subnet mask
- Fingerprint Algorithm**
 - GSA FIPS 201 PIV approved matcher/Morpho proprietary
 - Template extractor and matcher NIST MINEX certified
 - Morpho fingerprint image enhancement – Identification, filtering, and correction the effects of dirt, moisture, scars, cuts, latent prints and foreign objects to increase accuracy
- Fingerprint Sensor**
 - MorphoSmart™ Optic sensor
 - 500 dpi resolution
 - FBI PIV-IQS and FIPS 201 certified
 - Wide area, accurate fingerprint sensor, for high definition fingerprint image acquisition (.9" x .9")
 - Allowable finger rotation +/-70°

• Contact Smart Card Reader

PC/SC ISO 7816 Contact Smart Card Reader

• Contactless Smart Card Reader

PC/SC ISO 14443 MiFare/DESFire contactless card reader

• Display and Key Pad

Backlit LCD graphical display, 128x64 pixels

Backlit keypad with 12 Keys, +4 programmable function keys, Buzzer and bi-color LED

• Processor

Dual-core ARM 9 microprocessors with multi-thread processing capability

• Security

SSL on TCP/IP network

Anti-tamper and anti-theft switches, Secure screws

Fake Finger Detection with optronic sensor

• Power supply

9V to 16V (250mA typical @ 12V) or Power Over Ethernet (POE)

• Operating Temperature

14° F -122° F

-40° F-122° F (LOW TEMPERATURE OPTION)

• Certifications

FIPS 201 PIV, TWIC ICE, FBI PIV IQS, FCC and RoHS

Available Models:

Outdoor MorphoAccess™ 520 Dual Card Reader

- Integrated Contact and Contactless Smartcard Reader
- Ingress Protection IP65

Outdoor MorphoAccess™ 520 Dual Card Reader Low Temperature

- Integrated Contact and Contactless Smartcard Reader
- Ingress Protection IP65
- Operational to down -40° F

Outdoor MorphoAccess™ 521 Dual Card Reader

- Integrated Contact and Contactless Smartcard Reader
- Ingress Protection IP65
- Fake Finger Detection

MorphoAccess™ 520 Dual Card Reader

- Integrated Contact and Contactless Smartcard Reader

MorphoAccess™ 521 Dual Card Reader

- Integrated Contact and Contactless Smartcard Reader
- Fake Finger Detection