

MOBILE IDENTIFICATION READER

**MORPHOCHECK**

HANDHELD TERMINAL



Reads all PIV, CAC, TWIC, FRAC, & DESFire Cards

Real-Time Identification or Verification in the Field

FBI PIV-IQS and FIPS 201 Certified Optical Fingerprint Sensor

Unrivalled Accuracy of MorphoTrak's Algorithms

The MorphoCheck handheld terminal is designed to check the new generation of electronic identification documents with embedded biometric data. Compact and autonomous, it can be easily used in the field by police and security forces, customs staff, border control and immigration officers.

**A host of features:**

- Credential and Cardholder Verification
- Passport document authentication
- On-board MorphoTrak fingerprint encoding and matching algorithms for authentication
- Secure data transmission to regional or national databases for fingerprint identification

**Applications:**

- Border crossings
- Remote field operations
- Refugee management
- US VISIT Entry/Exit
- Sporting events
- Commercial security applications
- FIPS 201 programs
- Law enforcement
- Traffic stops
- Jail Movement
- Court Identification
- Voting
- Social Services
- Healthcare
- Case Management
- Time and Attendance

**MorphoCheck Handheld Terminal:**

- **Dimensions:**
  - 240 mm x 75/100 mm x 31/42 mm
- **Weight:** (including battery):
  - MC200: 1.1 lb
  - MC250: 1.1 lb
  - MC300: 1.3 lb
- **Color / Touch Display:**
  - Full VGA 3.7" Transflective TFT 640 x 480 resolution
  - Adjustable LED Backlight featuring 165 cd/m<sup>2</sup> output
  - Ergonomic user interface allows stylus-free operation
- **Keyboard:**
  - Full alphanumeric QWERTY
  - Backlight, high-durability hard-capped keys
- **Power Management:**
  - Li-ion 4400 mAh high-capacity battery
  - Advanced smart battery with gauge
  - Operating time >8 hours
  - Hot-swap supported
- **Network Connections:**
  - Ethernet (via cradle); full-speed USB, host or client; RS232
- **Smart Card Reader:**
  - Contact Card- FIPS 201 approved ISO-7816
  - Contactless Card- FIPS 201 approved ISO 14443 A/B, Parts 1,2,3,4, T=CL protocol; Communicates with a contactless card at 106kbit/s, 212kbit/s or 424kbit/s
- **Barcode Reader:**
  - 2D area imager
- **OCR- B Swipe Reader for MRZ**
  - Machine Readable ICAO compliant Documents, Passports, Visas, Travel Cards
- **Expansion Slot:**
  - SD/MMC memory card
  - Secure Access Module (SAM)
  - Camera
  - GPS

**PERFORMANCE CHARACTERISTICS:**

- CPU: Intel PXA270 624 Mhz Processor
- Operating System: Microsoft® Windows® CE 5, Mobile 6.1 Professional
- Memory: 256 MB RAM, 1 GB Flash
- Expansion Slot: SD/MMC memory card
- MTBF > 25,000 Hours

**USER ENVIRONMENT:**

- **Operating Temp:** -4°F to 122° F/-20°C to 50° C
- **Storage Temp:** -40° F to 140° F/-40° C to 60° C
- **Humidity:** 95% non-condensing
- **Drop Spec:** Withstands multiple drops from 6 ft (1.8 m) to concrete
- **Sealing:** IP65 (base unit) IP54 (end-cap)
- **Electrostatic Discharge (ESD):** ±8kV air discharge, ±4kV direct discharge

**WIRELESS COMMUNICATIONS:**

- Wi-Fi 802.11b/g Compact Flash Radio
- GPRS EDGE- 850/900/1800/1900 Voice and Data
- 3G HSDPA- 850/1900/2100MHz Voice and Data
- GPS
- Integrated Bluetooth® Class II, V 2.0 with Enhanced Data Rate (EDR)

**BIOMETRIC CHARACTERISTICS:****MorphoSmart Optic Fingerprint Sensor:**

- Large capture sensor area: 0.6" x .87"
- 500dpi, 256 gray level image
- Handles up to 180° finger rotation
- FBI PIV-IQS and FIPS 201 certified
- FIPS 201 approved template generator and matcher
- Exceeds standard for image quality specified by FBI, NIST, BIMA
- Morpho fingerprint image enhancement – Filters and corrects the effects of dirt, moisture, cuts and foreign objects to increase accuracy
- Most accurate & interoperable fingerprint reader technology on GSA FIPS 201 APL
- #1 Rated Proprietary Fingerprint Matching Algorithm – Per 2011 NIST PFT Test
- #1 Rated Interoperable Fingerprint Matching Algorithm -Per 2011 NIST MINEX I and MINEX II Match-On-Card (MOC) Tests

**MOBILE CARDHOLDER VALIDATION SOFTWARE FOR HSPD-12 COMPLIANCE:**

- Integrated with Codebench OMNlCheck® Plus Mobile and OMNlCheck® Plus Mobile with PACS Registration

**OMNlCheck® Plus Mobile with PACS Registration**

- Enables FIPS 201-compliant validation of and registration with physical access control systems (PACS)
- Active or passive badge suspension if card certificate serial number is on Certificate Revocation List (CRL) or FASC-N is on TSA CCL
- PIVCheck® also integrated with MorphoTrak fixed biometric readers

**OMNlCheck® Plus Mobile**

- Mobile validation for verification of PIV, PIV-I, TWIC, FRAC, CAC, and DESFire credentials
- Network-based and offline functionality and PACS integration
- Database synchronization (photos, names, PACS card numbers, access rights, TWIC privacy keys)

**Available Models:**

- MorphoCheck 200 (MC 200)
- MorphoCheck 250 (MC 250)
- MorphoCheck 300 (MC 300)

REGULATORY  
CE, CB, FCC, WEEE, RoHS