



MorphoTouch[®] **Biometric Terminal**

- Fast, high quality image capture ■
- 1:1 authentication and 1:many identification ■
- Enrollment to internal or external databases ■
- Up to 48,000 2-fingerprint record database ■
- Magnetic stripe reader ■
- ISO 7816 contact smart card reader ■
- 10BaseT Ethernet and RS-232 ■
- Software Development Kit ■



*Multi-application handheld
finger identification terminal*

 **SAGEM MORPHO, Inc.**

*Tomorrow's Identification solutions
for today*

MorphoTouch[®]

Biometric Terminal

Multi-application handheld finger identification terminal

The MorphoTouch[®](MT) is a robust handheld biometric terminal that offers rapid 1:1 authentication and 1:many identification against large databases. The precision optical scanner coupled with SAGEM's leading algorithms and real time operating system make finger processing remarkably fast and accurate. The magnetic stripe reader, ISO 7816 contact smart card reader, keypad, LCD display, and expanded database capacity (MT400) provide the flexibility to accommodate multiple applications. System interfaces are made easy through standard 10BaseT Ethernet and RS-232 communications. A Software Development Kit (SDK) is also available for developing custom applications. The MorphoTouch is a versatile handheld identification solution for applications requiring fast, precise finger biometrics.

Feature	MorphoTouch [®] Model	
	MT200	MT400
Capacity	1,000 2-Fingerprint records	48,000 2-Fingerprint records
Memory	8 MB RAM 4 MB Flash	8 MB RAM 36 MB Flash
ISO 7816 Contact Card	Yes	Yes
Fake Finger Detection	No	No

Technical Specifications

Applications

- Biometric identification for banking, food service, point-of-sale, border control, loyalty programs, and other identification uses
- Develop custom terminal applications with the Software Development Kit (SDK)
- Multi-layer identity verification for low-to-high security applications
 - 1:1 authentication using PINs or contact smart cards
 - 1:many identification for up to 48,000 2-fingerprint records

Terminal Software

- Configurable Operating Parameters allow specific project requirements (workflows, languages, messages, etc.)
- Biometric Services ensure optimal fingerprint quality during preprocessing, acquisition and feature extraction, matching, and biometric record management
- Fingerprint Compression: Wavelet Scalar Quantization (WSQ) (optional)
- Real Time Operating System and external Device Drivers manage terminal operations, external communications, and file system

Terminal Hardware

- Scanner: High quality optical sensor
- Resolution: 500 dpi at 256-bit grayscale (416 X 416 pixels)
- Platen Area: 0.9 in X 1.1 in (2.2 cm X 2.7 cm)
- Distortion: < 1.0 %
- Display: Backlit LCD graphical display, up to 4 lines, 22 characters each line, 136 X 34 pixels, support for multiple international character sets
- Keypad: 12 alphanumeric keys plus 7 function keys
- Authentication Time: < 1.0 second
- Identification Time: < 2.5 seconds (database of ≤ 3,000 people)
- False Acceptance Ratio (FAR): 1 in 10,000 or better, configurable based on customer security specifications

Mechanical

- Length: 7.8 in (19.7 cm)
- Width: 3.0 in (7.6 cm)
- Depth: 2.1 in (5.4 cm)
- Weight: 14.8 oz (0.4 kg)
- Housing: PC-ABS
- Color: Black

Contact Card Reader

- Contact smart card: ISO 7816
- Magnetic card: ISO tracks 1 and 2 or 2 and 3

Communications

- Ethernet port: 1 Ethernet 10BaseT
- Serial port: 2 Serial, RS-232
- Extension port: 1 Extension port (for custom snap-on peripherals)

Environmental

- Installation: Indoor applications
- Operating Temperature: 32° F to 104° F (0° C to 40° C)
- Storage Temperature: -4° F to 158° F (-20° C to 70° C)
- Relative Humidity: 0% to 80%, non-condensing

Power

- 12 VDC, 1.2 A minimum

Features and specifications are subject to change without notice.



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