



Motorola MC70 with Biometric Attachment

Motorola MC70 with Biometric Attachment provides you with the ability to:

Accurately identify individuals with true one-handed operation in the harshest of conditions.

Implement an all-in-one solution ergonomically optimized to provide an intuitive user interface offering speed and accuracy.

The biometric attachment with optional contact and contactless smart card readers is well-suited for identity management applications. A FIPS 201 certified fingerprint sensor supplies the highest quality images within a variety of lighting conditions. With the available ISO compliant contact and contactless smart card readers, this attachment is positioned for emerging security applications such as TWIC, PIV, CAC, FRAC, ePassports, eVisas and other biometric-enabled secure credentials.

The biometric attachment extends the ergonomic functionality of its MC70 host. Additionally, the biometric attachment maintains the overall MC70 environmental specifications, including sealing (IP54), drop, temperature and shock.

With the flagship MC70 Enterprise Digital Assistant (EDA), this rugged, handheld incorporates a biometric fingerprint reader, contact and contactless card reader, mobile phone, PDA, computer, scanner and imager in an ergonomic device designed for the rigors of in-the-field, all day usage. Its robust capabilities and cost-effective anytime, anywhere data connectivity makes this solution well-suited for border crossings, remote field operations, traffic stops, sporting events or commercial security applications. The MC70 is a multifunction handheld computer built to deliver the highest return on investment (ROI). The industry-leading mechanical design and innovative technology offer superior construction and expandability, ensuring Motorola MC70 with Biometric Attachment will offer functionality in the harshest conditions with low cost of ownership. Additionally, the MC70 utilizes the Intel XScale® PXA270 processor enabling desktop-like performance for identity management, law enforcement, military and other applications.

The Motorola MC70 with Biometric Attachment places the ability to rapidly establish the identity of individuals in the hands of those who have the immediate need for information; it provides the right intelligence to the right people at the right time.

Applications:

- Border crossings
- Remote field operations
- Evacuee management
- US VISIT Entry/Exit
- Sporting events
- Commercial security applications
- TWIC
- PIV/CAC
- Local law enforcement
- Traffic stops
- Jail Movement
- Court Identification
- Voting
- Social Services
- Healthcare
- Case Management

SPECIFICATION SHEET

MOTOROLA MC70
with Biometric Attachment

MC70 FEATURES

Multiple Battery Options to supply ample power for full shifts in nearly any environment

High-performance processors from Intel® designed for mobility and providing desktop-like performance with lower power requirements

Industry-leading double impact testing (drop and tumble), IP 54 sealing, delivering in field reliability

Advanced wireless communications (GSM/EDGE and CDMA-EVDO) enabling high-speed broadband connectivity out in the field

Fast and easy to install

Fingerprint Sensor Only Biometric Attachment:

- Fingerprint Sensor: FIPS 201 certified, 508 DPI
- 0.7 in. x 0.5 in.
- Environmental and drop specifications are the same as the MC70

Fingerprint Sensor with Contact and Contactless Card Readers Biometric Attachment:

- Fingerprint Sensor: FIPS 201 certified, 508 DPI
- 0.7 in. x 0.5 in.
- Contact Card Reader ISO 7816
- ISO 14443 compliant
- MIFARE/DESfire compliant
- Contactless Reader ISO 14443 compliant
- Environmental and drop specifications are the same as the MC70
- Led light to indicate card reader status

MC70 Handheld Mobile Computer:

- Dimensions:
 - 6 in. L x 3.1 in. W x 1.5 in D (15.3 cm L x 7.6 cm W x 3.7 cm D)
 - CDMA/EVDO Rev. 0 configurations: 6 in. L x 3.1 in. W x 1.7 in. D (15.3 cm L x 7.9 cm W x 4.4 D)
- Weight (including standard battery):
 - LAN/PAN configs: 11.2oz./314 g
 - WAN/LAN/PAN configs: 12 oz./336 g
 - CDMA/EVDO Rev. 0 configs: 14.1oz./400g
- Display: Transflective color 3.5" QVGA with backlight, TFT-LCD, 65K colors, 240W x 320 L
- Touch Panel: Glass analog resistive touch
- Backlight: LED backlight
- Main Battery: Rechargeable Lithium Ion 3.7V, 1900 mAh Smart Battery
- Ext. Cap. Battery: Optional 3.7V, 4800 mAh Smart Battery
- Backup Battery: Ni-MH battery (rechargeable) 20mAh 1.2V, 2 cells (not user-accessible)
- Expansion Slot:
 - User accessible SDIO slot (with secure cover); accommodates extended cards (without cover)
- Network Connections: Ethernet (via cradle); full-speed USB, host or client
- Notification: Vibrator and LED
- Keypad Options: 26 Numeric; 44 QWERTY
- Global Position System (integrated):
 - High Performance
 - Internal Antenna & SIRF111star
 - Chipset
 - Typical Time to First Fix < 30 seconds (TTFF)
- Audio: Speaker, receiver, microphone, headset jack, support for full duplex record and playback

Performance Characteristics:

- CPU: Intel® XScale™ 624 Mhz processor
- Operating System: Microsoft Windows Mobile®
- Memory: 64MB RAM/128MB ROM or, 128MB RAM/128MB ROM
- Interface: RS-232, USB 1.1

User Environment:

- Operating Temp.: 14°F to 122° F / -10°C to 50° C
- Storage Temp.: -40° F to 140° F / -40° C to 60° C (w/o battery)
- Humidity: 95% non-condensing
- Drop Spec: 4 ft. drop to concrete, 6 drops per 6 sides over operating temperature range; 5 ft. drop to concrete, 2 drops per 6 sides at ambient temperature 73° F/23° C
- Tumble Spec: 1,000 1.6 ft./5 m tumbles (2,000 drops)
- Sealing: IP54
- Electrostatic Discharge (ESD): ±15kV air discharge, ±8kV direct discharge

Wireless WAN Data and Voice Communications:

- WWAN Radio: GSM/EDGE (850, 900, 1800 and 1900 MHz) CDMA-EVDO Rev.0

Wireless LAN Data and Voice Communications:

- WLAN Radio:
 - Tri-mode IEEE® 802.11a/b/g
 - NOTE: 802.11a not available in Thailand
- Data Rates Supported: 1, 2, 5.5, 6, 9, 11, 12, 18, 24, 36, 48 and 54 Mbps
- Operating Channels:
 - Chan 8-169 (5040-5845 MHz)
 - Chan 1-13 (2412-2472 MHz)
 - Chan 14 (2484 MHz) Japan only
 - Actual operating channels/frequencies depend on regulatory rules and certification agency
- Security: WPA2, WEP (40 or 128 bit), TKIP, TLS, TTLS (MS-CHAP), TTLS (MS-CHAP v2), TTLS (CHAP), TTLS-MD5, TTLS-PAP, PEAP-TLS, PEAP (MS-CHAP v2), AES, LEAP
- Antenna: Internal for LAN, External for WAN
- Voice Communication: Integrated Voice-over-IP ready (P2P, PBX, PTT), Wi-Fi™-certified, IEEE 802.11a/b/g direct sequence wireless LAN

Wireless PAN Data and Voice Communications:

- Bluetooth®: Class II, v 1.2

Data Capture Specifications:

- Options: 1D linear, 2D imager



MOTOROLA

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