

MC70 GPS

Enterprise Digital Assistant



FEATURES

GPS provides additional functionality to drive higher productivity among the field service and field mobility segments

Industry-leading double impact testing (drop and tumble), IP54 sealing, integrated antennas Lightweight yet rugged; built for year-round use in nearly any environment

Intel's latest processor, designed for mobility: XScale PXA270 @ 624 MHz Desktop-like multimedia performance with lower power requirements

Microsoft's advanced operating system: Windows Mobile 5.0 Premium or Phone Edition Integrated multimedia, persistent memory and FIPS-140-2 security certification

The first rugged enterprise digital assistant

The flagship MC70 Enterprise Digital Assistant (EDA) is a rugged handheld mobile device that incorporates a mobile phone, PDA, computer, scanner and imager in a single unit designed for the rigors of all-day, everyday usage. This compact, lightweight device combines multi-mode wireless networking, voice and data communications, and advanced data capture in an enterprise productivity tool that can support nearly any application in any environment. Superior voice functionality includes outstanding acoustic performance and voice quality, handset, headset and speakerphone modes. Your mobile workers will have everything they need to increase productivity and efficiency inside and outside your four walls - from field workers reading meters and repairing equipment to drivers delivering packages, hospital workers checking lab results and medication orders, and more.

Rugged construction delivers a low Total Cost of Ownership

The industry leading mechanical design and technology platform offer superior construction and expandability, delivering outstanding investment protection and a low total cost of ownership (TCO). Engineered to withstand rigorous use in extreme environments and working conditions, the MC70, including the internal WLAN and external WWAN antennas, can endure multiple drops, a wide range of temperatures, moisture, dust, and more and still deliver reliable performance.

Built-in WWAN/WLAN/WPAN and integrated GPS

The MC70 offers robust and cost-effective anytime, anywhere voice and data connectivity. For workers outside of your facility, support for GSM/EDGE networks delivers global coverage, fast wireless data speeds that enable rich applications, and enterprise level security. Inside your facility, the MC70 connects to your wireless LAN for voice and data communications, providing better control over wireless WAN usage — and costs. And wireless PAN functionality, via Bluetooth, further increases employee productivity through wireless printing and more. The integrated GPS functionality enables you to locate drivers, re-route delivery workers, find missing devices anywhere in your enterprise, and more.

Reduce the cost and complexity of mobility

The versatile, effective MC70 is a smart investment, providing a cell phone, PDA and more - all in a single rugged device. Capital expenditures and IT support costs are significantly reduced. Superior manageability enables you to easily and remotely provision, track and support all your MC70 devices from one central location through our Mobility Services Platform. A full suite of accessories provides maximum application flexibility. And when you purchase Service from the Start with Comprehensive Coverage, we will repair damaged displays, plastics, keyboards, circuit boards, and other internal and external components at no extra charge — helping you protect your investment and maintain peak performance.For more information on the MC70, access our global contact directory at www.symbol.com/contact or visit us on the web at www.motorola.com/mc70

MC70 GPS

WWAN: GSM/EDGE compatibility

Voice and high-speed wireless data

WLAN: 802.11a/b/g tri-mode radio; comprehensive VoIP support

Cost-effective voice and data connectivity in the office

WPAN: Bluetooth v1.2, Class II

Wireless modem, printing synchronization, and more

High quality speakerphone, microphone and transducer

Superior voice quality and performance

On-board advanced data capture: 1D and 2D bar code scanning from near contact to 44in/111cm

Automate and error proof data collection and increase productivity

3.5 in. QVGA color screen

Easy to view in any lighting

Multiple keyboard options: QWERTY or numeric

Flexibility to meet diverse user and application needs

Support for standard and extended cards

Provides additional memory and expandable functionality

Multiple battery options: standard and extended Ample power for full shifts in nearly any environment

MC70 GPS Specifications

Global Positioning	High Performance
System:	Internal Antenna & SIRF111star
	Chipset
	Typical Time to First Fix<30 seconds (TTFF)
Dimensions:	7094 GPS: 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 cm D
Weight:	Wan/Lan/Pan-GPS/360g /15.6 oz.
Display:	Transflective color 3.5" QVGA with
	backlight, TFT-LCD, 65K colors, 240 W x 320 L (QVGA size)
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, 3800 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 (with cover removed); NOTE: terminals with extended cards cannot be accommodated in the charging cradle and will not maintain 1P54 sealing rating
Network Connections:	Ethernet (via cradle); USB, host or client
Notification:	Vibrator and LED
Keypad Options:	26 Numeric key; 44 QWERTY key
Audio:	Speaker, receiver, microphone, headset jack, software support for full duplex record and playback (stereo)
Performance Chara	cteristics
CPU:	Intel® XScale™ 624 Mhz processor
Operating System:	Microsoft® Windows™ Mobile 5.0 Premium, Microsoft® Windows™ Mobile 5.0 Premium Phone Edition
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	±15kV air discharge,

WWWAN Radio: GSM/EDGE (850, 900, 1800 and 1900 M Wireless LAN Data and Voice Communications WLAN Radio: Tri-mode IEEE® 802.11a/b/g Note: 802.11a not available in Thailand. Data Rates 1, 2, 5.5, 6, 9, 11, 12, 18, 24, 36, Supported: 48 and 54 Mbps Operating Channels: Chan 8-169 (5040 - 5845 MHz) Chan 1-13 (2412-2472 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 v2), TTLS (MS-CHAP v2), TTLS (CHAP), TTLS-MD5, TTLS-PAP, PEAP-TLS, PEAP (MS-CHAP v2), AES, LE Spreading Direct Sequence Spread Spectrum Technique: (DSSS) and Orthogonal Frequency Division Multiplexing (OFDM) Antenna: Internal for LAN, External for WAN	
WLAN Radio: Tri-mode IEEE® 802.11a/b/g Note: 802.11a not available in Thailand. Data Rates 1, 2, 5.5, 6, 9, 11, 12, 18, 24, 36, Supported: 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 (MS-CHAP v2), AEAP-TLS, PEAP (MS-CHAP v2), AES, LE Spreading Direct Sequence Spread Spectrum (DSSS) and Orthogonal Frequency Division Multiplexing (OFDM)	
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Technique: (DSSS) and Orthogonal Frequency Division Multiplexing (OFDM)	
Antenna: Internal for LAN External for MAN	
Antenna. Internal for LAN, External for WAN	
Voice Integrated Voice-over-IP ready (P2P, PB Communication: PTT), Wi-Fi TM -certified, IEEE 802.11a/b/ direct sequence wireless LAN	
Wireless PAN Data and Voice Communications	
Bluetooth: Class II, v 1.2	
Data Capture Specifications	
Options: 1D linear, 2D imager	
Linear 1D Scanner (SE950)	_
Optical Resolution: - 0.004 in. minimum element width	
Roll: ±35° from vertical	
Pitch Angle: ± 65° from normal	
Skew Tolerance: ± 50° from normal	
Ambient Light: 10,000 candles	
Scan Rate: 104 (+/- 12) scans/sec (bi-directional)	
Scan Angle: 47° ± 3° default 35° ± 3° reduced	
2D Imager Engine (SE 4400) Specifications	
Optical Resolution: 640 H x 480 V pixels (gray scale)	
Roll: 360°	
Pitch Angle: ± 60° from normal	
Skew Tolerance: ± 50° from normal	
Ambient Light: Total darkness to 9,000 ft. candles (96,900)	_ux)
Focal Distance from Near: 5 inches Front of Engine: Far: 9 inches	
Aiming Element (VLD): 650 nm ± 5 nm	
Illumination Element (LED): 635 nm \pm 20 nm	
Field of View: Horizontal: 32.2°; Vertical: 24.5°	
Peripherals and Accessories*	
Communication and Serial and USB v1.1 charging cables, Charging Cables: printer cables, vehicle charging cable, power/charging cable	

Battery Chargers:	4-slot battery charger (1X and 2X), universal battery charger (requires adapters for 1X and 2X capacity batteries)
Vertical-specific attachments:	Snap-on magnetic stripe reader, snap-on trigger handle, rigid case
Electrical Safety:	Certified to UL / cUL 60950-1, IEC / EN60950-1,
EMI/RFI:	USA: FCC Part 15; Canada: ICES 003 Class B; Europe: EN55022 Class B, EN 55024, EN60601-1-2; Australia: AS/NZS CISPRA 22

For countries outside USA, Canada, European Economic Area, Japan or Australia consult your local Motorola representative

*For a complete list of MC70 Peripherals and Accessories, go to www.symbol.com/mc70

Regulatory		
Electrical Safety:	Certified to UL / cUL 60950-1, IEC / EN60950-1	
Environmental:	RoHS-compliant	
WLAN and Bluetooth:	USA: FCC Part 15.247, 15.407; Canada: RSS-210; EU: EN 300 328-1, EN 301 893; Japan: ARIB STD-T33, ARIB STD-T66, ARIB STD-T71; Australia: AS/NZS 4268	
Quad Band GSM/ EDGE (850, 900, 1800 and 900 bands):	Global: 3GPP TS 51.010, GCF approved module; USA: FCC Part 22, Part 24; Canada: RSS-132, RSS-133; EU: EN301 511; Australia: AS/ACIF S 018, AS TS 001	
RF Exposure:	USA: FCC Part 2, FCC OET Bulletin 65 Supplement C; Canada: RSS-102; EU: EN 50360; Australia: AS/NZ 2772.1, ARPANSA	
EMI/RFI:	North America: FCC Part 15; Canada: ICES 003 Class B; EU: EN55022 Class B, EN 301 489-1, EN 301 489-7, EN 310 489-17, EN 60601-1-2; Australia: AS/NZS CISPRA 22	
Laser Safety:	IEC Class2/FDA Class II in accordance with IEC60825-1/EN60825-1	
For countries outsid	le USA, Canada, European Economic Area,	

Japan or Australia consult your local Motorola representative

Warranty

The MC70 is warranted against defects in workmanship and materials for a period of 12 months from date of shipment, provided that the product remains unmodified and is operated under normal and proper conditions.





GSM/EDGE Network Support



A full suite of accessories and 3rd-party peripherals provides convenient charging of MC70 devices and batteries as well as customization for a variety of vertical applications, from trigger handles that increase user comfort to magnetic stripe readers that enable on-the-spot credit card processing and more.



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