

MC70 Enterprise Digital Assistant





FEATURES

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

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

Microsoft's Windows Mobile 5.0 Premium or Phone Edition, or Windows Mobile 6.1 Classic or Premium Integrated multimedia, persistent memory

Integrated GPS via Autonomous SiRF III GPS positioning system

The optional integrated highsensitivity GPS allows to track personnel and equipment and minimize transportation costs. Please refer to the MC70+GPS Specification Sheet for details.

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 TCO

The industry leading innovative 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

The MC70 offers robust and cost-effective anytime, anywhere voice and data connectivity. For workers outside of your facility, support for GSM/EDGE and CDMA-EVDO 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.

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, visit us on the web at www.motorola.com/mc70

MC70

WWAN: GSM/EDGE and CDMA-EVDO Rev. 0 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 55 in./139.7cm

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 SD and SDIO cards

Provides additional memory and expandable functionality

Multiple battery options: standard and extended

Ample power for full shifts in nearly any environment

MC70	Specifications
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Physical Characteristics	
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	
LAN/PAN configs: 11.2 oz./314 g WAN/LAN/PAN configs: 12 oz./336 g CDMA/EVDO Rev. 0 configs: 14.1oz./400g	
Transflective color 3.5" QVGA with backlight, TFT-LCD, 65K colors, 240 W x 320 L (QVGA size)	
Glass analog resistive touch	
LED backlight	
Aain Battery: Rechargeable Lithium Ion 3.7V, 1900 mAh, 3600 mAh, 3800 mAh or 4800 mAh Smart Battery	
Ni-MH battery (rechargeable) 20mAh 1.2V, 2 cells (not user-accessible)	
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 be sealed	
Ethernet (via cradle); full-speed USB, host or client	
Vibrator and LED	
26 Numeric key; 44 QWERTY key	
Speaker, receiver, microphone, headset jack, software support for full duplex record and playback (stereo)	
cteristics	
XScale™ 624 Mhz processor	
Microsoft® Windows™ Mobile 5.0 Premium, Microsoft® Windows™ Mobile 5.0 Phone Edition, Windows Mobile 6.1 Classic or Premium	
64MB RAM/128MB ROM or, 128MB RAM/128MB ROM	
RS-232, USB 1.1	
14°F to 122° F/-10°C to 50° C	
-40° F to 140° F/-40° C to 60° C (w/o battery)	
95% non-condensing	
5 ft. drop to concrete, 2 drops per 6 sides at ambient temperature 73° F/23° C; 4 ft. drop to concrete, 6 drops per 6 sides over operating temperature range	
1,000 1.6 ft./.5 m tumbles (2,000 drops)	
IP54	
±15kV air discharge, ±8kV direct discharge	
and Voice Communications	
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, L		
preading Direct Sequence Spread Spectrum echnique: (DSSS) and Orthogonal Frequency Division Multiplexing (OFDM)		
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 a	and Voice Communications	
Bluetooth:	Class II, v 1.2	
Data Capture Specif	ications	
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 (96,900Lux)	
Focal Distance from Front of Engine:	Near: 5 inches Far: 9 inches	
Aiming Element (VLD		
	(LED): 635 nm ± 20 nm	
Field of View:	Horizontal: 32.2°; Vertical: 24.5°	
Peripherals and Acc		
Communication and Charging Cables:	Serial and USB v1.1 charging cables, printer cables, vehicle charging cable, power/charging cable	
Battery Chargers:	4-slot battery charger, universal battery charger (requires adapters for MC70 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
	de USA, Canada, European Economic Area, consult your local Motorola representative
*For a complete lis go to www.motoro	t of MC70 Peripherals and Accessories, ola.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
CDMA-EVDO Rev. 0:	Verizon/Sprint/AllTel/Bell Mobility For latest information, contact your local Motorola representative.
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
Hazardous Locatio Class I, Division II,	on Certifications A,B,C,D (Select Configurations Only)
	de USA, Canada, European Economic Area, consult your local Motorola representative
Warranty	
	nted against defeats in workmanship and

Belt clip

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.



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 Global Positioning Systems that provide 24-hour, three-dimensional position, velocity and time information to magnetic stripe readers that enable on-the-spot credit card processing and more.

4-slot cradle



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