

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 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 Rev. 0 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, contact us at +1.800.722.6234 or +1.631.738.2400, or visit us on the Web at: www.symbol.com/mc70



FEATURES

BENEFITS

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 latest operating system: Windows Mobile 5.0 Premium or Phone Edition

Integrated multimedia, persistent memory and FIPS-140-2 security certification

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 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 Series Specifications

Physical Characteristics

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: (inc. standard battery):	LAN/PAN configurations - 11.2 oz./314 g WAN/LAN/PAN configurations - 12 oz./336 g CDMA/EVDO Rev. 0 configurations - 14.1oz. / 400g
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
Extended 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 be sealed
Network Connections:	Ethernet (via cradle); full-speed 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 Characteristics

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/Communications:	RS-232, USB 1.1

User Environment

Operating Temperature:	14°F to 122° F/-10°C to 50° C
Storage Temperature (without battery):	-40° F to 140° F/-40° C to 60° C
Humidity:	95% non-condensing
Drop Specification:	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 Specification:	1,000 1.6 ft./5 m tumbles (2,000 drops)
Environmental Sealing:	IP54
Electrostatic Discharge (ESD):	+/-15kV air discharge, +/-8kV direct discharge

Wireless WAN Data and Voice Communications

Wireless Wide Area (WWAN) radio:	GSM/EDGE (850, 900, 1800 and 1900 MHz) and CDMA-EVDO Rev. 0
Wireless LAN Data and Voice Communications	
Wireless Local Area (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
Spreading Technique:	Direct Sequence Spread Spectrum (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 and Voice Communications

Bluetooth:	Class II, v 1.2
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Data Capture Specifications

Options:	1D linear, 2D imager
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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):	650 nm +/- 5 nm
Illumination Element (LED):	635 nm +/- 20 nm
Field of View:	Horizontal - 32.2°, Vertical - 24.5°

Peripherals and Accessories*

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 (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 CISPR 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 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
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 CISPR A 22
Laser Safety:	IEC Class2/FDA Class II in accordance with IEC60825-1/EN60825-1

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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



CDMA-EVDO Rev. 0 Network Support



Trigger handle

Vehicle cradle

Single-slot cradle

4-slot battery 'toaster'

Vehicle and charging cables

Magnetic Stripe Reader

Snap-ons for GPS or RFID

Belt clip

4-slot cradle

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.

About Motorola

Motorola is known around the world for innovation and leadership in wireless and broadband communications. Inspired by our vision of Seamless Mobility, the people of Motorola are committed to helping you get and stay connected simply and seamlessly to the people, information, and entertainment that you want and need. We do this by designing and delivering “must have” products, “must do” experiences and powerful networks — along with a full complement of support services. A Fortune 100 company with global presence and impact, Motorola had sales of US \$35.3 billion in 2005. For more information about our company, our people and our innovations, please visit <http://www.Motorola.com>



MOTOROLA

Corporate Headquarters

Symbol Technologies,
A Motorola Company
One Symbol Plaza
Holtsville, NY 11742-1300
TEL: +1.800.722-6234
+1.631.738.2400
FAX: +1.631.738.5990

For Asia Pacific Area

Symbol Technologies,
A Motorola Company
(Singapore Branch)
Asia Pacific Division
230 Victoria Street #12-06/10
Bugis Junction Office Tower
Singapore 188024
TEL: +65.6796.9600
FAX: +65.6796.7199

For Europe, Middle East and Africa

Symbol Technologies,
A Motorola Company
EMEA Division
Symbol Place, Winnersh Triangle
Berkshire, England RG41 5TP
TEL: +44.118.9457000
FAX: +44.118.9457500

For North America, Latin America and Canada

Symbol Technologies,
A Motorola Company
The Americas
One Symbol Plaza
Holtsville, NY 11742-1300
TEL: +1.800.722.6234
+1.631.738.2400
FAX: +1.631.738.5990

Web Site

For a complete list of Symbol subsidiaries
and business partners worldwide contact
us at:

www.symbol.com

E-mail

info@symbol.com



BARCODING, WIRELESS AND DATA COLLECTION

Our customers turn to us to help them become more productive and profitable. TPI's expertise guarantees your project will be successful: on time, on budget and meet your ROI requirements.

TPI will facilitate your entire wireless and data collection project:

- ✓ *Business analysis*
- ✓ *Project justification & ROI*
- ✓ *Wireless design, RF site survey and spectrum analysis*
- ✓ *WWAN, WLAN design & installation*
- ✓ *Custom software*
- ✓ *Integration w/legacy systems*
- ✓ *Mobile computers*
- ✓ *Data collection terminals*
- ✓ *Barcode printers, labels and scanners*
- ✓ *RFID solutions*
- ✓ *Configuration and deployment*
- ✓ *Training and installation*
- ✓ *Service and upgrades*
- ✓ *Remote device management and support*

TPI can share best practices in data collection from a number of industries including wholesale distribution, manufacturing, healthcare and retail/consumer goods. Our expertise allows you to shorten your learning curve and increase your return on investment.

Product specification sheet provided by TPI

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