

## MC50



# Introducing the Symbol MC50, today's Enterprise Digital Assistant: a PDA, scanner, pager and voice-over-Wi-Fi phone all in one.

### Features:

- Enterprise-level foundation
- Durable design
- Deployment-ready systems
- High-speed CPU performance
- Diverse data capture options
- Wireless networking 802.11b (WLAN)
- Ready voice over IP (VoIP)
- Mobility Services Platform (MSP)
- Smart battery
- User-accessible SDIO
- User-friendly keypad options

### Benefits:

- Combines mobile computing, data capture and wireless networking
- Less downtime than consumer-grade devices
- Fast and easy deployment
- Operates enterprise-level applications
- Captures information accurately and quickly
- Secure mobile transactions enable real-time communications and decision-making
- Designed to perform seamless voice communications via push-to-talk, peer-to-peer, PBX connectivity, 1-to-1 or 1-to-many
- Ensures maximum uptime
- Offers flexible functionality and keypad design for efficient, productive data entry

### Redefine Mobility for Enterprise-Class Applications

The MC50 from Symbol Technologies is first in a class of mobile computers that combines an enhanced PDA-style form factor with optimal performance to operate enterprise-level applications. This small, lightweight mobile computer features advanced data capture options, flexible voice and data communication and easy wireless local area network (WLAN) synchronization.

### Increase Productivity and Gain Access to Real-time Information

With data capture, voice telephony, smart battery, device level management, and wireless and security options, on-the-go professionals are empowered to make rapid, informed decisions. This convenient mobile computer delivers enterprise-class functionality, including support for e-mail, phone, scheduling/calendar, signature capture, CRM, sales force automation and other enterprise applications. With the MC50 in hand, retail store managers, merchandisers and salespeople have the necessary tool to create and maintain a competitive advantage.

### Deploy and Manage Mobility Systems More Effectively

The MC50 enables superior manageability and rapid integration into new or existing IT infrastructures. Its Microsoft® Windows Mobile™ software platform offers compatibility with Oracle®, Siebel®, SAP® and IBM® customer relationship management (CRM) software for easy, fast rollouts into any environment. Adding mobility management software allows you to quickly deploy and manage thousands of MC50 devices with instant visibility and control over all the mobile computers, wireless networks and applications from an intuitive, Web-based interface.

### Enhanced Durability for Frequent, Extended Use

The MC50 is designed to be more durable than a consumer-grade PDA. Extra reliability is built into every aspect of the MC50 – from battery contacts to keypads to acoustics – to ensure it exceeds the performance demands of daily, high-volume usage. Managers, supervisors and sales professionals can feel more confident using the MC50 from anywhere at anytime, whether it is on the road, on the sales floor or at a customer site.

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**This durable, reliable, robust handheld device is revolutionizing business productivity.** By delivering enterprise-class functionality, including advanced data capture, VoIP telephony and wireless capabilities, the MC50 replaces the need for separate PDAs, scanners, pagers and voice-over-Wi-Fi phones and gives managers real-time access to information and inventory. For increased productivity on the retail floor, in warehouse environments and at the office – and technology that IT can deploy reliably – trust the proven performance of Symbol.

## MC50 Specification Highlights

### Physical Characteristics

<b>Dimensions</b>	NAV	1D: 4.77" H x 2.95" W x .94" L (12.1 cm H x 7.5 cm W x 2.4 cm L); 2D Imager: 4.77" H x 2.95" W x 1.13" L (12.1 cm H x 7.5 cm W x 2.9 cm L); CCD Camera: 4.77" H x 2.95" W x 1.11" L (12.1 cm H x 7.5 cm W x 2.8 cm L)
	Qwerty	1D: 5.35" H x 2.95" W x .94" L (13.6 cm H x 7.5 cm W x 2.4 cm L); 2D Imager: 5.35" H x 2.95" W x 1.13" L (13.6 cm H x 7.5 cm W x 2.9 cm L); CCD Camera: 5.35" H x 2.95" W x 1.11" L (13.6 cm H x 7.5 cm W x 2.8 cm L)
<b>Weight (including standard battery)</b>	NAV 1D	6.42 oz/ 182 g
	Qwerty ID	6.77 oz/ 192 g
<b>Display</b>	Transflective color TFT-LCD, 65K colors, 240 (W) x 320 (L) (QVGA size)	
<b>Touch Panel</b>	Glass analog resistive touch	
<b>Backlight</b>	LED backlight	
<b>Main Battery</b>	Rechargeable Lithium Ion 3.7V, 1560mAh	
<b>Extended Capacity Battery</b>	Optional 3.7V, 3600mAh	
<b>Backup Battery</b>	Ni-MH battery (rechargeable) 15mAh 1.2V, 1 cell	
<b>Expansion Slot</b>	User accessible SDIO slot (with secure cover)	
<b>Notification</b>	Vibrator and LED	
<b>Keypad Options</b>	NAV: 4	Application keys and 5-way navigation key
	Qwerty	37-key
<b>Audio</b>	Speaker, receiver, microphone, headset jack; Software support for full duplex record and playback (stereo)	

### Performance Characteristics

<b>CPU</b>	Intel® XScale™ 520Mhz processor
<b>Operating System</b>	Microsoft® Windows Mobile™ 2003 Second Edition
<b>Memory</b>	64MB RAM / 64MB ROM
<b>Interface/Communications</b>	RS-232, USB 1.1

### User Environment

<b>Operating Temperature</b>	0° to 50°C (32° to 155°F)
<b>Storage Temperature</b>	-25° to 60°C (-13° to 140°F)
<b>Humidity</b>	95% non-condensing
<b>Drop</b>	3' drop to tile over concrete, 1 drop per side at 21°C ( 70°F)
<b>ESD</b>	+/-8kV air discharge, +/-8kV direct discharge

### Wireless Data and Voice Communication

<b>WLAN</b>	IEEE® 802.11b
<b>Data Rate</b>	1/2/5.5/11 Mbps
<b>Frequency Range</b>	Country dependent; typically 2.4 to 2.5GHz
<b>Output Power</b>	14.5dBm (typical)
<b>Security</b>	WEP, TKIP, LEAP, PEAP, EAP-TLS, WPA (pre-shared key)
<b>Spreading Technique</b>	Direct sequence
<b>Antenna</b>	Internal
<b>Voice Communication</b>	Integrated Voice-over-IP ready (P2P, PBX, PTT) Wi-Fi™-certified, IEEE 802.11b direct sequence wireless LAN

### Data Capture

<b>Options</b>	2D imager, linear CMOS or CCD camera
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## MC50 Specification Highlights, cont.

### 2D Imager Engine (SE 4400)

<b>Field of View</b>	Horizontal: 32.2°, Vertical: 24.5°
<b>Optical Resolution (gray scale)</b>	640 (H) x 480 (V) pixels
<b>Roll</b>	360°
<b>Pitch Angle</b>	+/- 60° from normal
<b>Skew Tolerance</b>	+/- 50° from normal
<b>Focal Distance from Front of Engine</b>	Near: 5 inches, Far: 9 inches
<b>Aiming Element (VLD)</b>	650 nm +/- 5 nm
<b>Illumination Element (LED)</b>	635 nm +/- 20 nm
<b>Minimum Print Contrast</b>	Minimum 25% absolute dark/light reflectance measured at 650 nm
<b>Symbologies</b>	1D Symbology: UPC/EAN, Code 128, UCC.EAN128, RSS, Code 39, Code 93, I 2 of 5, Discrete 2 of 5, Codabar, MSI; 2D Symbology: MaxiCode, PDF417, DataMatrix, QRCode Postal Codes: U.S. Postnet, U.S. Planet, UK Postal, Australian Postal, Japan Postal
<b>Image File Formats</b>	BMP, TIFF, JPEG

### Linear CMOS (CSE600)

<b>Field of View</b>	40° +/- 2°
<b>Pitch Angle</b>	+/- 50° from normal
<b>Roll</b>	+/- 20° from vertical
<b>Skew Tolerance</b>	+/- 30° from normal
<b>Minimum Print Contrast</b>	35% MRD measured at 675 nm
<b>Supported Symbologies</b>	UPC /EAN, Code 39, I 2 of 5, Discrete 2 of 5, Code 128, UCC.EAN128, Code 93, Codabar
<b>CCD Camera</b>	Image Sensor: 1/4 in. type 1.1 mega-pixel CCD
<b>Maximum Frame Rate</b>	7.5 fps
<b>Minimum Subject Illumination</b>	2 lux (at 5 fps)
<b>Number of Output Pixels</b>	1144 (H) x 880 (V)
<b>Image Output Interface</b>	UYVY 8-bit
<b>Lens F-Number</b>	f2.8
<b>Scan Triggers</b>	Left and right trigger buttons
<b>Peripherals and Accessories Cradles</b>	Single-slot USB with spare battery (1X and 2X) charging, four-slot Ethernet or USB
<b>Communication and Charging Cables</b>	USB v1.1, vehicle charging cable, power/charging cable
<b>Battery Chargers</b>	4-slot battery charger (1X and 2X), universal battery charger (requires adapters for 1X and 2X capacity batteries)
<b>Vertical-specific Attachments</b>	Snap-on magnetic stripe reader, universal cable cup adapter attachable cables

### Regulatory

<b>Electrical Safety</b>	UL60950 (UL marking), CSA C22.2 No. 60950 (c-UL marking), EN60950/IEC 950
<b>EMI/RFI</b>	EU/Internatio; EN 301 489-1, -17; EN61000-4-2: 1995, ESD ±8kV air/ ±4kV contact; EN61000-4-3: 1997, Radiated Immunity 3V/m; EN61000-4-4: 1995, EFT ± 0.5kV; EN61000-4-5: 1995, Surge ± 0.5kV; EN61000-4-6: 1
<b>Laser Safety</b>	IEC Class2/FDA Class II in accordance with IEC60825-1/EN60825-1

### Warranty

The Symbol MC50 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.

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