

# Symbol MC50 | Fact Sheet

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

## 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 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, 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, healthcare professionals have the necessary tool to provide the highest level of patient care.

## Deploy and Manage Mobility Systems More Effectively

The MC50 enables superior manageability and rapid integration into new or existing IT infrastructures. 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. Healthcare professionals can feel more confident using the MC50 from anywhere at anytime.

This durable, reliable, robust handheld device is revolutionizing business productivity. By delivering enterprise-class functionality and wireless capabilities, the MC50 replaces the need for separate PDAs and scanners and gives healthcare professionals real-time access to information and inventory. For increased productivity at the office, at home or at the hospital – and technology that IT can deploy reliably – trust the proven performance of Symbol.



## FEATURES

- Enterprise-level foundation
- Durable design
- Deployment-ready systems
- High-speed CPU performance
- Wireless networking 802.11b (WLAN)
- Mobility Services Platform (MSP)
- Smart battery
- User-accessible SDIO

## 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
- Ensures maximum uptime

Contact your Sage  
Representative today  
to learn more about the  
Symbol MC50  
877-932-6301.

## MC50 SPECIFICATION HIGHLIGHTS

### Physical Characteristics

Dimensions: NAV 1D	4.77" H x 2.95" W x .94" L (12.1 H x 7.5 W x 2.4 cm L)
Dimensions: 2D Imager	4.77" H x 2.95" W x 1.13" L (12.1 H x 7.5 W x 2.9 cm L)
Dimensions: CCD Camera	4.77" H x 2.95" W x 1.11" L (12.1 H x 7.5 W x 2.8 cm L)
Weight (including standard battery)	NAV 1D : 6.42 oz/ 182 g Qwerty ID : 6.77 oz/ 192 g
Display	Transflective color 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, 1560mAh
Extended Capacity Battery	Optional 3.7V, 3600mAh
Backup Battery	Ni-MH battery (rechargeable) 15mAh 1.2V, 1 cell
Expansion Slot	User accessible SDIO slot (with secure cover)
Notification	Vibrator and LED
Keypad Options	NAV: 4 Application keys and 5-way navigation key Qwerty 37-key
Audio	Speaker, receiver, microphone, headset jack; Software support for full duplex record and playback (stereo)

### Performance Characteristics

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

### User Environment

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

### Wireless Data and Voice Communication

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

### Data Capture

Options	2D imager, linear CMOS or CCD camera
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### 2D Imager Engine (SE 4400)

Field of View	Horizontal: 32.2°, Vertical: 24.5°
Optical Resolution	640 (H) x 480 (V) pixels (gray scale)
Roll	360°
Pitch Angle	+/- 60° from normal
Skew Tolerance	+/- 50° from normal
Focal Distance from	Near: 5 inches, Far: 9 inches
Front of Engine	
Aiming Element (VLD)	650 nm +/- 5 nm
Illumination Element (LED)	635 nm +/- 20 nm
Minimum Print Contrast	Minimum 25% absolute dark/light reflectance measured at 650 nm
Symbologies	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
Image File Formats	BMP, TIFF, JPEG

### Linear CMOS (CSE600)

Field of View	40° +/- 2°
Pitch Angle	+/- 50° from normal

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

### Regulatory

Electrical Safety	UL60950 (UL marking), CSA C22.2 No. 60950 (c-UL marking), EN60950/ IEC 950
EMI/RFI	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
Laser Safety	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.