

MOBILE COMPUTERS

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, 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®-based platform offers compatibility with Microsoft, 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.

Symbol Enterprise Mobility Services

Symbol Enterprise Mobility Services ensure that your mobility solution works seamlessly and at maximum efficiency – from defining your business requirements through ongoing service and support.



Features	Benefits
Enterprise-level foundation	Combines mobile computing, data capture and wireless networking for a totally integrated solution
Durable design	Enhances product lifecycle with less downtime than consumer-grade devices
Deployment-ready systems	Designed to run – out of box – fast and easy
High-speed CPU performance	Operates enterprise-level applications
Diverse data capture options	Captures information accurately and quickly every time
Wireless networking based on the standard IEEE 802.11b (WLAN)	Enables real-time communications and decision-making with secure mobile transactions
Ready voice over IP (VoIP)	Designed to perform seamless voice communications via push-to-talk, peer-to-peer, PBX connectivity, 1-to-1 or 1-to-many
Mobility Services Platform (MSP)	Reduces TCO with accelerated rollout and ongoing visibility into mobile devices, networks and applications
Smart battery	Ensures maximum uptime
User-accessible SDIO slot with cover	Provides technology flexibility while improving acoustics
User-friendly keypad options	Offers flexible functionality and keypad design for efficient, productive data entry

About Symbol Technologies

Symbol Technologies, Inc., The Enterprise Mobility Company™, manufactures and services enterprise mobility systems, delivering products and solutions that capture, move and manage information in real time to and from the point of business activity. Symbol enterprise mobility solutions integrate advanced data capture products, radio frequency identification technology, mobile computing platforms, wireless infrastructure, mobility software and services programs under the Symbol Enterprise Mobility Services brand. Symbol enterprise mobility products and solutions are designed to increase workforce productivity, reduce operating costs, drive operational efficiencies and realize competitive advantages for the world's leading companies.

For more information, contact us at +1.800.722.6234 or +1.631.738.2400, or visit us on the web at: www.symbol.com/mc50

MC50 Specification Highlights

Physical Characteristics			
Dimensions:			
NAV	1D	4.77 in. H x 2.95 in. W x .94 in. L (12.1 cm H x 7.5 cm W x 2.4 cm L)	
	2D Imager	4.77 in. H x 2.95 in. W x 1.13 in. L (12.1 cm H x 7.5 cm W x 2.9 cm L)	
	CCD Camera	4.77 in. H x 2.95 in. W x 1.11 in. L (12.1 cm H x 7.5 cm W x 2.8 cm L)	
Qwerty	1D	5.35 in. H x 2.95 in. W x .94 in. L (13.6 cm H x 7.5 cm W x 2.4 cm L)	
	2D Imager	5.35 in. H x 2.95 in. W x 1.13 in. L (13.6 cm H x 7.5 cm W x 2.9 cm L)	
	CCD Camera	5.35 in. H x 2.95 in. W x 1.11 in. L (13.6 cm H x 7.5 cm W x 2.8 cm L)	
Weight (including standard battery):	NAV 1D	6.42 oz/ 182 g	
	QWERTY 1D	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, 1560 mAh		
Extended Capacity Battery:	Optional 3.7V, 3600 mAh		
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™ 520 Mhz 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) operating temperature
Storage Temperature:	-25° to 60° C (-13° to 140° F) storage temperature
Humidity:	95% non-condensing
Drop Specification:	3' drop to tile over concrete, 1 drop per side at 21° C (70° F)
Electrostatic Discharge (ESD):	+/-8kV air discharge, +/-8kV direct discharge

Wireless Data and Voice Communications	
Wireless Local Area (WLAN):	IEEE® 802.11b
Data Rate:	1/2/5.5/11 Mbps
Frequency Range:	Country dependent; typically 2.4 to 2.5 GHz
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

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.

Specifications are subject to change without notice. All product and company names are trademarks, service marks or registered trademarks of their respective owners.

NOTICE: Repairs of this product may require the use of Symbol proprietary parts (and/or Symbol proprietary information). Symbol will sell these parts (and provide this proprietary information) only to end-user customers for self-service. It is Symbol's policy not to sell these parts to third-party service providers and not to allow a third-party service provider to act as an ordering or receiving agent for the parts necessary to repair this product. Applicable in the US. For all other countries, please contact your Symbol account manager or the local Symbol Customer Service representative in your area for further details.



MC50 09/04

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Data Capture Specifications	
Options:	2D imager, linear CMOS or CCD camera
2D Imager Engine (SE 4400) Specifications:	
Field of View:	Horizontal: 32.2°, Vertical: 24.5°
Optical Resolution (gray scale):	640 (H) x 480 (V) pixels
Roll:	360°
Pitch Angle:	+/- 60° from normal
Skew Tolerance:	+/- 50° from normal
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
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 PostalP
Image File Formats:	BMP, TIFF, JPEG
Linear CMOS (CSE600):	
View Angle:	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 Illumination:	2 lux (at 5 fps)
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/International 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



For system, product or services availability and specific information within your country, please contact your local Symbol Technologies office or Business Partner.

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