MC50

Enterprise Digital Assistant

Redefine mobility for enterprise-class applications

The MC50 from Motorola 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 Mobile™ software 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.

Motorola Enterprise Mobility Services

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

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 Specifications

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
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

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 (inc. 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

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

Data Capture Specifications

Options: 2D imager, linear CMOS imager or CCD camera

2D Imager Engine (SE 4400) Specifications:

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:	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 Postal
Image File Formats:	BMP, TIFF, JPEG

Linear CMOS Imager (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
Min. 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 acc.:	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

The 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.

C N410 CE

CAUTION
LASER LIGHT— DO NOT STARE INTO BEAM
630nm-680nm LASER
1.0 MILLIWATT MAX. OUTPUT
CLASS II LASER PRODUCT

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