



SPECIFICATION SHEET - More on Back:

MC75

Worldwide Enterprise Digital Assistant



- The Motorola MC75 has unprecedented durability - leading drop test, IP54 sealing and integrated antennas
- Powerful microprocessor in the MC75 is designed for mobility: XScale PxA270 @ 624 Mhz
- The MC75 has Windows Mobile 6.0
- The Motorola MC75 has VoIP support - Tri-radio voice capability. Simultaneous WAN voice and data transfer (on HSDPA). Cellular broadband throughput up to 3 Mbps.
- Multi- mode data capture in the MC75 with a barcode scanner and a color camera
- WPan: Bluetooth® v2.0 - Wireless connectivity to modems, printers, headsets and more; v2.0 provides additional throughput (up to 2.1 Mbps), improved
- SiRFstarIII GSC3ef/ LP GPS chipset - Assisted and autonomous GPS support for robust location-based applications; fast time to first fix (TTFF)
- IEEE 1725 compliance for the entire MC75 system — including all models, all batteries and all power-related accessories (such as cradles and charging cables) - Mitigates battery system failure, bringing a new level of reliability and quality to the entire MC75 system
- 128MB RAM/256MB flash Provides memory space required to enable robust performance for database applications
- User accessible microSD card slot - Provides additional memory and expandable functionality
- Multiple voice modes: handset, headset and speakerphone Flexibility to use the right mode at the right time
- 3.5 inch color high definition full VGA display (640 x 480)

Peripheral and Regulatory Specifications

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, 1.5X, 2X and 2.5X), universal battery charger (requires adapters for 1X, 1.5X, 2X and 2.5X capacity batteries)
Vertical-specific attachments:	Snap-on magnetic stripe reader, payment snap-on (Debit and Credit), 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 A 22

For countries outside USA, Canada, European Economic Area, Japan or Australia consult your local Motorola representative

* For a complete list of MC75 Peripherals and Accessories, please visit www.motorola.com/mc75

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, EN 301 893 Japan: ARIB STD-T33, ARIB STD-T66, ARIB STD-T71 Australia: AS/NZS 4268

Quad Band GSM/EDGE, plus Tri-band HSDPA:	Global: 3GPP TS 51.010, 3GPP TS 34.121, 3GPP TS 34.123 GCF approved module USA: FCC Part 22, Part 24 Canada: RSS-132, RSS-133 EU: EN301 511, EN301 908 Australia: AS/ACIF S 024, AS TS 001
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CDMA-EVDO Rev. A:	Verizon/Sprint/AllTel/Bell Mobility/Telus For latest information, contact your local Motorola representative
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RF Exposure:	USA: FCC Part 2, FCC OET Bulletin 65 Supplement C Canada: RSS-102 EU: EN 50360 Australia: Radiocommunications Standard 2003
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EMI/RFI:	North America: FCC Part 15, Class B Canada: ICES 003 Class B EU: EN55022 Class B, EN 301 489-1, EN 301 489-7, EN 301 489-17, EN 301 489-19, EN 301 489-24, EN 60601-1-2 Australia: AS/NZS CISPR A 22
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Laser Safety:	IEC Class2/FDA Class II in accordance with IEC60825-1/EN60825-1
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Warranty

The MC75 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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MC75 Specifications

Physical Characteristics

Dimensions:	6 in. L x 3.3 in. W x 1.7 in D 15.24 cm L x 8.4 cm W x 4.4 cm D
Weight	Standard 1.5X battery: 14.9 oz./422 g Extended Capacity 2.5X battery: 15.7 oz./446g
Display:	Transflective color 3.5" full VGA with backlight, 640 x 480
Touch Panel:	Glass analog resistive touch
Backlight:	LED backlight
Main Battery:	Rechargeable Lithium Ion 3.7V, 3600 Mah Smart Battery
Ext. Cap. Battery:	Optional 3.7V, 4800 mAh Smart Battery
Backup Battery:	Ni-MH battery (rechargeable) 15mAh 2.4V (not user-accessible)
Expansion Slot:	microSD slot (maximum 2 GB)
Network Connections:	Ethernet (via cradle); full-speed USB, host or client
Notification:	Vibrator and LED
Keypad Options:	26-key Numeric; 44-key QWERTY, 44-key AZERTY, 44-key QWERTZ
Audio:	Speaker, receiver, microphone, headset jack, software support for full duplex record and playback (stereo)

Performance Characteristics

CPU:	XScale™ PXA270 624 Mhz processor
Operating System:	Microsoft® Windows Mobile® 6.0
Memory:	128MB RAM; 256MB Flash
Interface:	RS-232, USB 1.1

User Environment

Operating Temperature:	14° F to 122° F / -10° C to 50° C
Storage Temperature:	-40° F to 140° F / -40° C to 60° C (w/o battery)
Humidity:	95% non-condensing
Drop Specification:	5 ft. Drop to concrete, 2 drops per 6 sides at ambient temperature 73° F / 23° C; 4 ft. Drop to concrete, 6 drops per 6 sides over Operating temperature range
Tumble Specification:	1,000 1.6 ft. / .5 m tumbles (2,000 drops)
Sealing:	IP54
IrDA:	Integrated
Clock:	Integrated real time clock
Light Immunity:	Readability: Incandescent — 450 ft. candles; Sunlight — 8000 ft. candles; Fluorescent: 450 ft. candles
Electrostatic Discharge (ESD):	±15kV air discharge, ±8kV Direct Discharge

Battery Performance

Standby time:	150 hours
Talk time:	5 hours
User profiles:	Outdoor WAN+GPS, 15min/hour voice communication, 10kB transmission every 10 min, and GPS on all time, 8 hours of operation. Outdoor Voice, 15min/hour voice communication, 8 hours of operation, and 75 hours standby time.

Note: Performance metrics above were measured with Battery reserve option set the highest (72 hours)

Wireless WAN Data and Voice Communications

WWAN Radio:	GSM: 3G HSDPA; CDMA: EVDO Rev A
GPS:	Integrated Assisted-GPS (A-GPS)
WLAN Radio:	Tri-mode IEEE® 802.11a/b/g
Data Rates:	1, 2, 5.5, 6, 9, 11, 12, 18, 24, 36, 48 and 54 Mbps
Operating Channels:	Chan 8-165 (5040 – 5825 MHz) Chan 1-13 (2412-2472 MHz) Chan 14 (2484 MHz) Japan only Actual operating channels / frequencies depends 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-CHAPv2), 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, v2.0; on-board chip antenna
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Data Capture Specifications

Options:	Four configurations available: 1D laser scanner; 2D imager; 1D laser scanner and camera; 2D imager and camera
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Color Camera

Resolution:	2 megapixel
Illumination:	User controllable flash
Lens:	Auto focus

1D Laser Scanner (SE950)

Range on 100% UPCA:	24 in. / 60 cm
Resolution:	4 Mil minimum element width
Roll:	±35° from vertical
Pitch Angle:	±65° from normal
Skew Tolerance:	±50° from normal
Ambient Light Immunity:	10,000 ft. Candles / 107,640 lux
Scan Rate:	104 (+/-12) scans/sec (bi-directional)
Scan Angle:	47° ±3° default, 35° ± 3° reduced

2D Imager Engine (SE4400)

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/96,900 lux
Range on 100% UPCA:	16 in. / 40 cm
Aiming Element (VLD):	650 nm ± 5 nm
Illumination Element (LED):	635 nm ± 20 nm
Field of View:	Horizontal: 32.2°; Vertical: 24.5°



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