



# MC9090-G



## FEATURES

### Integrated 802.11 a/b/g WLAN radios

Flexible always-on connection maximizes productivity; compatible with any WLAN; technology differentiating features that deliver superior, reliable wireless connectivity

### Exceptionally rugged construction: passes industry's most stringent drop and tumble tests; IP64 sealing rating; integrated internal antennas

Flexibility to use in nearly any environment; dramatically reduces repair and downtime costs; delivers enterprise performance and ROI

### Common Motorola mobile device platform

Maximizes the value of your applications — and software development investment

### Forward scanning, pistol grip ergonomics

Reduces user fatigue in scan intensive applications

### Intel XScale PXA270

## Empower mobile workers inside the four walls with integrated multi-mode wireless LAN/PAN

Building on the success of the MC9000 family, the MC9090-G rugged mobile computer from Motorola provides mobile workers throughout the supply chain with a flexible always-on data connection to critical business applications and systems as well as to co-workers and other business associates. Equipped with the latest advances in mobile technology, the MC9090-G provides support for the richest enterprise applications, empowering mobile workers to capture and access critical business information in real time.

The industry-leading construction is designed to withstand rigorous use in extreme environments and a wide variety of working conditions, providing the flexibility to be used on the manufacturing floor, in the warehouse, on the loading dock, and out in the yard as well as in the back room or out on the sales floor of a retail operation. A seamless connection to any wireless LAN anywhere in the world provides a common global platform for your supply chain — and your applications. Support for wireless printing, wireless headsets and more via wireless PAN simplifies everyday use for end-users, while the ergonomic pistol-grip design provides comfort in scan intensive applications, such as shelf price audits and inventory management. Streamline your business operations, reduce errors, and increase your productivity and profitability with the power of the MC9090-G.

## The power to meet your enterprise application requirements

Whether your application is simple or complex, the MC9090-G delivers performance you can count on. The MC9090-G offers the latest Intel processor designed to handle the specific demands of mobility, as well as robust persistent storage capabilities and multiple advanced data capture options. A choice of the two most robust Microsoft operating systems — Windows Mobile 5.0 or Windows CE 5.0 — gives you the flexibility to select either a familiar feature rich environment or a robust customizable application-specific environment. The ability to capture images and bar codes from as close as four inches to as far as 40 feet, enables enterprises to deploy a single device in many business areas. Workers can count on ample battery life for a full shift through superior power management. And modular keypads, a rugged touch panel and a display that is easy to read inside and outside provide users with maximum ease-of-use and comfort.

## Rugged construction and maximum manageability deliver a low TCO

The MC9090-G delivers outstanding investment protection and a low total cost of ownership through superior design, construction, manageability and support services. Adding Motorola's Mobility Services Platform (MSP) enables you to quickly and easily provision, track and support all your MC9090-G devices from a central location, delivering an

## SPECIFICATION SHEET

MC9090-G

### processor: 624 MHz; enhanced memory architecture for persistent storage

Supports simple to complex  
multimedia applications

### Windows Mobile 5.0 or Windows CE 5.0

Most advanced mobile  
operating systems available;  
provides choice of familiar  
Windows environment  
or robust application-  
specific environment

### 1D Standard-range scan engine; 1D Extended-range scan engine; omni-directional imaging engine; DPM engine

Ability to select from 1D,  
2D, DPM and image capture  
capabilities delivers maximum  
application flexibility; provides  
real-time data capture and  
access to business information  
to enable process automation,  
error-proofing, and track and  
trace capabilities

### WPAN: Bluetooth v1.2

Wirelessly synchronize, print,  
and connect to a headset

### Large 3.8 in. display for exceptional clarity and contrast

Easy to read in a variety  
of lighting conditions

unprecedented level of simplicity and low cost to  
management of mobile devices. And Motorola  
offers a full suite of services, from deployment  
assistance to comprehensive support plans that  
include repair of everyday wear and tear. For more

information on the MC9090-G and its full line of  
accessories, access our global contact directory at  
[www.symbol.com/contact](http://www.symbol.com/contact) or visit us on the web at  
[www.symbol.com/mc9090g](http://www.symbol.com/mc9090g)

## MC9090-G Specifications

### Physical and Environmental Characteristics

Dimensions:	9.1 in. L x 3.6 in. W x 7.6 in. H 23.1 cm L x 9.1 cm H x 19.3 cm H
Weight:	25 oz./709 g (includes battery, scanner and radio)
Keyboard:	28-, 43- and 53-key; Terminal Emulation (5250, 3270, VT)
Display:	Win CE: 3.8 in. QVGA mono or color Windows Mobile: 3.8 in QVGA color only
Power:	Removable, rechargeable 7.2 volt Lithium Ion 2200 mAh battery pack, 15.8 watt hours

### Performance Characteristics

CPU:	Intel XScale Bulverde PXA270 processor at 624 MHz
Operating System:	Microsoft Windows CE 5.0 or Microsoft Windows Mobile 5.0 Premium Edition
Memory (RAM/ROM):	CE - 64 MB/64 MB; Windows Mobile - 64 MB/128 MB
Expansion:	SD/MMC Card
App Development:	PSDK, DCP and SMDK available through Motorola Support Central Web site
Data Capture Options:	1D standard range scan engine; 1D extended range scan engine; Omni-directional imaging engine reads 1D and 2D symbols omni-directionally, and captures images and signatures; DPM engine reads a wide variety of DPM marks including data matrix marks applied by dot peening, laser etching, molding, stamping or casting methods to multiple substrates such as metal, plastic or glass

### User Environment

Operating Temp.:	-4° to 122° F/-20° to 50° C
Charging Temp.:	32° to 104° F/0° to 40° C
Storage Temp.:	-40° F to 158° F/-40° C to 70° C
Humidity:	5% to 95% non condensing
Drop Spec:	Multiple drops to concrete: 6 ft./1.8 m across the operating temperature range
Tumble Spec:	2,000 one-meter tumbles at room temperature (4,000 hits)

Sealing:	IP64 (electronic enclosure, display and keypad)
Electrostatic Discharge (ESD):	±15kVdc air discharge; ±8kVdc direct discharge; ±8kVdc indirect discharge

### Wireless Data Communications

WLAN:	802.11a/b/g Note: 802.11a not available in Thailand
Output Power:	100 mW U.S. and international
Data Rate:	802.11a: up to 54 Mbps; 802.11b: up to 11 Mbps; 802.11g: up to 54 Mbps
Antenna:	Internal
Frequency Range:	All country dependent: 802.11a - 5 GHz; 802.11b - 2.4 GHz; 802.11g - 2.4 GHz
PAN (Bluetooth):	Bluetooth Version 1.2 with BTExplorer (manager) included

### Peripherals and Accessories

Cradles:	Single-slot serial/USB, 4-slot Ethernet, 4-slot charge only
Printers:	Supports extensive line of Motorola- approved printers and cables
Charger:	4-slot universal battery charger
Other Accessories:	Cable adapter module; snap-on magnetic stripe reader; modem module; full set of holsters; full set of cables

### Regulatory

Electrical Safety:	Certified to UL60950-1, CSA C22.2 No. 60950-1, EN60950-1, IEC 60950-1
EMI/RFI Radio Versions:	FFC Part2(SAR), FCC Part15, RSS210; EN 300 328 & EN 301 487, EN55022, EN55024
Laser Safety:	IEC Class2/FDA Class II in accordance with IEC60825-1/EN60825-1

### Hazardous Location Certifications

Class I, Division II, A,B,C,D  
(Select Configurations Only)

CN410 CE



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