



# MC90X0-G Non-Incendive

## Rugged mobile computer for hazardous locations

### NON-INCENDIVE SPECIFICATIONS

Motorola's MC90X0-G Non-Incendive mobile computers are designed for safe operation in areas where hazardous materials may be present. The MC90X0-G offers the following hazardous location specifications, (configuration dependent):

#### Class I, Division 2:

Ignitable concentrations of flammable gases, vapors, and liquids may be present, but are not likely to exist under normal operating conditions. (Groups A, B, C, D)

#### Class II, Division 2:

Ignitable concentrations of combustible dust may be present, but are not likely to exist under normal operating conditions. (Groups F, G)

#### Class III, Division 2:

Easily ignitable fibers and flyings are stored or handled.

#### Hazards of Electromagnetic Radiation to Ordinance (HERO) compliant:

HERO tested by the US Naval Surface Warfare Center at Dahlgren, VA

### Improve process efficiency in hazardous environments inside the four walls with real-time mobile data and Voice-over-WLAN (VoWLAN) communications

Enabling mobile computing in the presence of flammable gases, liquids, dust or fibers is challenging and requires special engineering to prevent inadvertent combustion. The rugged MC90X0-G Non-Incendive mobile computer ensures safe operation of internal electronic components — even in the presence of hazardous materials. The result is the power to enable automated data capture and real-time information access in military distribution facilities as well as maintenance operations, improving the efficiency and accuracy of warehouse staff and the highly-skilled technicians in charge of maintaining aircraft, tanks and other equipment. The gun style design brings comfort to the most scan intensive applications, allowing personnel to safely move hazardous materials through the warehouse and unload materials from aircraft, where flammable jet fuel fumes may be present. The latest advances in mobile technology and data capture combined with proven rugged construction and multi-mode wireless connectivity enable personnel to take action on the spot. The rich processing power provides the flexibility to run virtually any application, including video and voice. And superior power management keeps users up and running all shift long.

### Increase throughput, accuracy, accountability and worker safety

The MC90X0-G provides the tools required to automate processes and eliminate paper in asset management. Information can now be accessed, collected and transmitted electronically in real time, instantly visible in your systems. In addition, VoWLAN enables cost-effective voice communications between workers inside the four

walls, eliminating the need to provide personnel with separate voice and data devices. As a result, productivity is increased, the opportunity for error is reduced, and staff has access to the information needed to make the best decisions. For example, in the munitions depot, a quick scan of a bar code in receiving, put-away, picking and shipping enables the safe, accurate and cost-effective tracking of assets in real time.

### Easy to use

Multiple features provide users with maximum ease-of-use and comfort. A modular keypad architecture allows the selection of the keypad that will best complement your application — and keypads can be easily swapped right on site in minutes to accommodate updated or new applications. The rugged touch panel is designed to survive in the toughest environments and enables easy input with a stylus as well as a gloved or ungloved fingertip. And the display is easy to read in any lighting condition — from bright sunlight to dimly lit areas — providing support for workers out in the yard and inside the warehouse.

### Centralized management and superior support deliver a low total cost of ownership (TCO)

With the addition of Motorola's industry leading mobile device management solution, Mobility Services Platform (MSP), IT can remotely stage provision, monitor and troubleshoot thousands of MC90X0-G devices around the world from a central location, simplifying and driving the cost of everyday management to a new low. And Motorola's full suite of support services offers everything from deployment assistance to comprehensive plans that include repair of everyday wear and tear as well as accidental damage.

## SPECIFICATION SHEET

MC90X0-G Non-Incendive  
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### FEATURES

#### Forward scanning, pistol grip ergonomics

Reduces user fatigue in scan intensive applications.

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

Flexible anywhere, anytime wireless connection maximizes productivity and reduces errors.

#### 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 Platform Architecture

Enables easy and rapid porting of existing applications from other Motorola mobile computers; maximizes the value of your applications — and software development investment.

#### 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 agency information to enable process automation, error-proofing, and track and trace capabilities.

## MC90X0-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 W 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:	3.7 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 Mobile 5.0 Premium Edition or Windows Mobile 6.1 Classic
Memory (RAM/ROM):	64 MB/128 MB, 128 MB/128 MB (optional)
Expansion:	SD/MMC Card
Application 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° to 158° F/-40° to 70° C
Humidity:	5% to 95% non condensing (Condensation Resistant Configurations Available)
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 BTE Explorer (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 2, Groups A,B,C,D (select configurations only)
Class I, II, III Division 2, Groups A, B, C, D, F, G (select configurations only)

\* Certain accessories are not Non-Incendive compliant

EN410 CE



For more information on the MC90X0-G and its full line of accessories, access our global contact directory at [www.motorola.com/enterprisemobility/contactus](http://www.motorola.com/enterprisemobility/contactus) or visit us on the web at [www.motorola.com/mc9090g](http://www.motorola.com/mc9090g)



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