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Monday, April 28, 2014

MC9200: A Review of The Evolution of the Best Selling MC9060, MC9090 and MC9190 Mobile Computers by Motorola

Since 2003 [Motorola Solutions](#) (formerly [Symbol Technologies](#)) has been developing their extremely popular **MC9000 mobile computing line**. Found in many different environments, such as warehousing and manufacturing this rugged device has stood the test of time for its users. As technology has become obsolete, and better options available, the **MC9000** line has evolved with the times, providing more powerful options for applications such as warehouse inventory management, supply chain management and inventory control.

One strong consideration when moving forward within the same device family, is that Motorola has maintained a large amount of backward compatibility with many of the accessories used in previous generations.

Many **MC9060-G** accessories still work with the **MC9090-G**, along with the **MC9190-G** and their newest offering, **MC9200-G**. This shared accessory line reduces the overall cost of upgrading and migrating a mobile workforce, as these accessories do not require upgrading as well, leaving only the cost of the handheld to contend with for organizations when moving to a new device.



2003 - [Symbol MC9060-G Mobile Computer](#)



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The **MC9000-G series of mobile computers**, better known as the **MC9060-G mobile computer**, was introduced by Symbol Technologies in 2003.

The **MC9060-G** was created to be a modern, relatively compact, light-weight, flash-light style handheld computer for scan-intensive operations (such as supply-chain management) throughout the enterprise sector, and helped make the **MC9000-G's** Symbol's most successful rugged line of handhelds ever.

The original design of the device included features such as a monochrome or color touch-screen enabled 3.8" display (240 x 320), good processing power, modular 28, 43- and 53-key field-replaceable keyboard options, internal Wi-Fi, and scanning options included either a 1D laser (available in differing ranges), or 2D imager which supported many of the 2D barcode symbologies available at the time. The device was ruggedized in terms of sealing and drop-specs and had rubber bumpers and a specially designed torque cell which contributed to its impressive 6-foot drop spec.

Installed with either Windows Mobile 2003 for Pocket PC, or the more developer-orientated Windows CE .NET 4.2, it came ready for whatever environment users needed it in. With its pistol-grip design which reduced user fatigue, the **MC9060-G** was a powerful and versatile tool for data collection and processing in many different vertical and industrial markets.

[Download specifications sheet for the Symbol MC9060-G Mobile Computer \(PDF\)](#)

2006 - Symbol MC9090-G Mobile Computer



In late 2006, thanks to the great popularity of the **MC9000-G** series, Symbol Technologies updated the product line to the **MC9090-G**, which added more options for different markets.

Scanner 2D Logistics
Barcode Printer Honeywell
ADC POS-X Zebra
Datalogic Mobile Printer
Touchscreen ELO Industrial
Rugged Area Imager Handheld
Monitor Scanning Warehousing
Direct-Thermal Imager Intermec
Tablet 1D Android Code
Corporation Datalogic ADC
Psion Scanner-Scale Thermal-
Transfer Unitech 15-inch AIDC
Bluetooth Citizen DPM Enterprise
Laser MC9000-G MC9090-G
MC9190-G Manufacturing
PowerScan Rental Symbol
Technologies Tablet Computer
Thermal Receipt Printer
Touchcomputer Battery
Commercial Display Desktop
Enterprise Digital Assistant GTS
General Purpose Getac Global
Technology Systems Google HP
Healthcare Honeywell Batteries
Hospitality ION LCD LXE Linear
Imager MC9000-K MC9060-G
MC9090-K MC9200-G Magellan
PBT9500 PD9500 PDA Payment
Receipt Receipt Printer Repair
SATO Sled Symbol Transportation
Trimble Upgrade Vehicle-Mounted
VeriFone Windows Wireless
105SLPlus 1517L 1523L 17-inch 1723L
19" 19-Inch 1940L 42-Inch 7-inch 7001L
70e 8Ci All-In-One Alpha-3R Ambir
Apple BDL4250EL Batteries Bematech
Black CL-S321 CL-S531 CL-S6621
CL4NX CN50 CN51A CP60 CR2300
CR4405 CR6000 Captuvo SL22 Card
Card Printer Cash Drawer CipherLab
Code Reader 2300 Code Reader 4405
Code Reader 6000 Code Reader
CR2600 Companion Corded Cordless
Corning DS4800 Digital Signage
Document Dolphin Dolphin 70e Black
Dolphin 7800 Dolphin 7800 Android
E110 EDA EM220II ETT10A1 EVO 2D
EVO Green EVO Heavy Duty EVO
HiSpeed EVO Impact EVO Laser EVO-
TP4 Elo Tablet Evolis Genius Battery
Granit 1910i Green HD Heavy-Duty
History Impact In-Counter Inventory
Janam Juno T41 LE2000 LED LI2208
Label Logic Controls Lynx PDA M-
Series MC45 MC55 MC65 MC67 MC70
MC75 MC9000-S MC9060-K MC9060-S
MC906x-K MC906x-S MC9090-S
MC9200 MC92N0-G MC9500-K MFi
MK3100 MP6000 MP6200 MS840P
MS842 MS910 MSR MX 915 MX 925
Magellan 2200VS Magellan 2300HS
Enhanced Magellan 9800i Magnetic
Swipe Reader Marathon Memor X3
Micro Kiosk Microsoft Mini Mobile

As the merger was officially completed in January of 2007, and [Motorola Solutions acquired Symbol Technologies](#), Motorola continued using the Symbol Technologies brand for the early part of the year, before switching to Motorola branding completely, and dropping the Symbol name from the line.

[Download specifications sheet for the Symbol MC9090-G Mobile Computer \(PDF\)](#)



2007 - Motorola MC9090-G Mobile Computer



After the adoption of the Motorola branding, the **MC9090-G** continued to improve. Early options included similar specifications as the **MC9060-G**, using Windows CE 5.0 and Windows Mobile 5 for operating systems and increased the amount of memory and a faster processor.

Later configurations of the **MC9090-G** included the Windows Mobile 6.1 operating system as one of the options available.

*In September of 2011, Motorola discontinued the **MC9090-G** computers and announced a complete transition to the new **MC9190-G**.*

[Download specifications sheet for the Motorola MC9090-G Mobile Computer \(PDF\)](#)

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2011 - Motorola MC9190-G Mobile Computer



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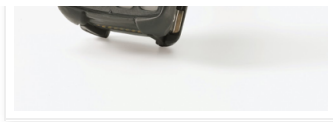


Feb. 14, 2011, Motorola announced the launch of the **MC9190-G mobile computer**, which was built upon the successful **MC9090-G**, but offering more processing power to support today's applications, and is available with more scanning options, better scanning performance, government-grade security, higher resolution display, and a more rugged touchscreen and scanner exit window.

[Download specifications sheet for the Motorola MC9190-G Mobile Computer \(PDF\)](#)

2013 - Motorola MC9200 Mobile Computer





On June 17, 2013, Motorola announced availability of the **MC9200** (Windows Embedded 6.5x models only, Windows CE 7.0 models became available on June 30, 2013).

The **MC9200** is the latest generation in the industry-leading rugged **MC9000 series**, now upgraded to support next generation mobile applications. This rugged mobile computer was developed to meet the changing business needs, bringing the same signature rugged design, best-in-class bar code scanning and dependable operation, available now with the power to run applications with highly-intuitive interfaces that will further simplify processes and increase worker productivity in tough environments. Added support for the 802.11n wireless standard, workers can have the best possible wireless voice and data experience.

The **MC9200** is tough, delivering reliable performance regardless of repeated drops, exposure to subzero cold, extreme heat, dust and splashing liquids. Available with 6 different options for scanning 1D barcodes, 2D barcodes, PDF417 barcodes on driver's licenses and direct part marks found in manufacturing, these laser or imager options allow the **MC9200** to be configured to deliver the best performance on the types of barcodes in use in your facility, even if the codes are dirty, damaged or poorly printed. As with previous generations, the device can be configured with multiple keyboard options, providing the easiest data entry options for its users.

The **MC9200** is available in 2 versions: standard and premium. The premium model has all the same features of the standard model but adds more memory, IST support, RFID tag and Microsoft Office on the WE operating system versions of the devices.

[Download Specifications sheet for the Motorola MC9200-G Mobile Computer \(PDF\)](#)

*As of the time of this writing, Motorola has not announced end of life for the **MC9190-G**. Industry experts expect the **MC9190-G** will sell through the remainder of 2014, after which it will likely be retired.*

MC9060-G vs. MC9090-G vs. MC9190-G vs. MC9200 Feature Comparison:

Feature	MC9060-G	MC9090-G	MC9190-G	MC9200
Processor	XScale PXA255 processor at 400 MHz	Intel XScale PXA270 @ 624 MHz	Marvell PXA320 @ 806 MHz	Dual core 1GHz OMAP 4 processor
Memory	Embedded CE: 64/64 MB Windows Mobile 5.0	CE 5.0: 64MB/64MB or 128MB/64MB Windows Mobile 5.0	256MB RAM/ 1GB Flash	512MB RAM / 2GB Flash or

System	Windows Mobile: 64/64 MB	Premium or 6.1 Classic: 64MB/128MB or 128MB/128MB		1 GB RAM / 2GB Flash
Operating System	Microsoft Windows Embedded CE, NET or Windows Mobile 2003	Windows Mobile 5.0 Premium Edition or Windows Mobile 6.1 Classic or Microsoft Windows CE 5.0	Windows Embedded Handheld 6.5.3 or Microsoft Windows CE 6.0	Windows Embedded Handheld 6.5.3 or Windows Embedded Compact 7.0
Motorola Mobility Platform Architecture (MPA)	N/A	MPA 1.0	MPA 2.0	MPA 3.0
WLAN	Symbol Spectrum24, 802.11b, 802.11	802.11a/b/g	802.11a/b/g	802.11a/b/g/n
Scanning Options	1D Laser Standard Range Scanner (SE824) or 2D	1D Laser (SE1224) or 1D Laser Long Range (SE1524-ER) or 1D/2D Imager (SE4400) or 1D/2D Imager with	1D Laser (SE960) or 1D Laser Long Range (SE1524-ER) or 1D/2D Imager (SE4500-SR) or 1D/2D Long Range Imager (SE4600) or 1D/2D Imager with Driver's License parsing (SE4500-DL) or 1D/2D Imager with DPM	1D Laser (SE965) or 1D Laser Long Range (SE1524-ER) or 1D/2D Imager (SE4500-SR) or 1D/2D Long Range Imager (SE4600) or 1D/2D Imager with Driver's License parsing (SE4500-DL) or 1D/2D Imager with DPM

	Image r	DPM (SE4400-HD)	(SE4500-HD)	(SE4500-HD)
Inter ract ive Sen sor Tec hno log y (IST)	No	No	Yes	
FIP S 140 -2 Cer tific atio n	No	No	Yes	
Dis pla y	3.8 in. 1/4 VGA Mono or Color	3.7 in. QVGA mono or color for Win CE, Windows Mobile models only available in color.	3.7 in. VGA color available on all models	
Gor illa ® Gla ss Sca nne r Exit Win do w	No	No	Yes	
Har den ed Tou chs cre en	Yes	Yes	Yes — with increased hardness	
SD Exp ans ion Slot	SD/M MC card up to 1GB	SD/MMC card up to 1GB	SD/MMC card up to 32GB	

Bluetooth Version	Bluetooth v1.1	Bluetooth v1.2	Bluetooth 2.1 with EDR (Enhanced Data Rate)
Bluetooth Stacks	Stone Street	StoneStreet	StoneStreet or Microsoft
Swappable Operating Systems	No	No	Yes

[Download MC9200 vs. MC9190-G vs. MC9090-G Feature Comparison PDF here.](#)

Feature	MC9200 Customer Benefit
Processor / Memory	Plenty of power to support next generation mobile applications with graphics intensive elegant and intuitive interfaces; simplifies application use and increases user productivity. Ample power to run complex ERP applications - simultaneously.
Operating System	Robust mobile operating systems that allow your business to take advantage of the latest mobility feature set, delivering increased flexibility, interoperability and security.
Motorola Mobility Platform Architecture (MPA)	The latest Motorola MPA platform provides the latest best-in-class technology architecture, providing an extended lifecycle and future-proofing. In addition, the standardized platform preserves existing application investments by enabling easy and cost-effective porting of applications from other Motorola mobile computers.
WLAN	The latest Wi-Fi standard, 802.11n, offers more bandwidth, can support more users and more applications and delivers wired-line style performance over a wireless connection.
Scanning Option	Provides multiple data capture options, including long-range capture of 1D and 2D bar codes, as well as Motorola's latest 1D laser scanner. Four imager options all offer Motorola's revolutionary imaging technology, with stunning laser-like performance on both 1D and 2D barcodes. The degradation of 1D bar code scanning performance typical in today's 2D

s	imagers is eliminated; expanding data capture capabilities to include 2D bar codes as well as documents, images and signatures — without impacting user productivity or scanning accuracy.
Interactive Sensor Technology (IST)	Enables leading edge motion-based applications. In addition to dynamic screen orientation: • Automatically powers down when not in use • Records device drops for man-down applications • Provides access to accelerometer data to support custom applications
FIPS 140-2 Certification	NIST Validated use in government applications. No additional 3rd party supplicants required.
Display	Best-in-class 3.7 inch high-resolution backlit color VGA touchscreen display provides great readability in any lighting condition — from bright sunlight to total darkness.
Gorilla® Glass Scanner Exit Window	Increases the durability of the scanner exit window with glass that is virtually impervious to damage — including scratches.
Hardened Touchscreen	The increased hardness further improves resistance to wear and tear.
SD Expansion Slot	Larger expansion slot capacity provides ample storage for the largest applications.
Bluetooth Version	The latest Bluetooth technology provides a faster wireless connection to more device types (up to 3 Mbps) over a more secure connection.
Bluetooth Stacks	Select the stack that best meets mobility needs.
Swappable Operating Systems	The ability to send the MC9200 to a Motorola Service Center to switch between CE and Windows Mobile operating systems eliminates the need to purchase new mobile computers to accommodate a future OS migration.



Is your organization still using MC9060-G or MC9090-G mobile computers? Maybe it's [time to consider an upgrade](#). Worried about the costs of upgrading? Don't worry, we can help.

[Legacy Technology Services](#) routinely buys **MC9000-G**, **MC9060-G** and **MC9090-G mobile computers** from customers, which helps reduce their costs in upgrading to newer models. These devices are repaired and fully refurbished, adding them to our large rental pool for customers who have more short-term inventory needs.

Posted by Legacy Technology Services at [10:17 AM](#)

Labels: [1D](#), [2D](#), [DPM](#), [Logistics](#), [MC9000-G](#), [MC9090-G](#), [MC9190-G](#), [MC9200-G](#), [Mobile Computer](#), [Motorola](#), [PDF417](#), [Refurbish](#), [Rental](#), [Repair](#), [Review](#), [Supply Chain](#), [Symbol Technologies](#), [Upgrade](#), [Warehousing](#), [WiFi](#)

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