



MC 9090<sup>ex</sup>-K with 1D-Standard Range Scan Engine or 1D-/2D-Imager Engine

Features

- WLAN radio standard IEEE 802.11 a/b/g
- Various barcode applications with various scan engines
- Battery can be changed easily by the user
- Expanded storage capacity with replaceable SD card
- Various variants of replaceable keyboards
- Compatibility with MC9090 from Motorola
- Service contracts

Description

The MC 9090<sup>ex</sup>-K Mobile Computer is a robust device for reliable barcode scanning in hazardous areas.

The scan trigger is positioned in such a way that barcodes can be captured very conveniently. The integrated radio module enables real time data access to your host system.

The MC 9090<sup>ex</sup>-K combines the strength of Microsoft's Pocket PC platform with the power of the Intel® XScale™ PXA270 processor with 624 MHz.

A further highlight is the large easy-to-read 1/4 VGA color display with touchscreen technology. The MC 9090<sup>ex</sup>-K is working with the IEEE 802.11a/b/g radio standard (direct sequence).

Market	Applications	Users
<b>Automobile industry</b> (suppliers of paintwork, for paint shops, etc.)	- Material flow monitoring - Production control	<b>Dispatch, receiving and stock management departments</b> Personnel who have received instruction on the handling of potentially explosive substances.
<b>Food and beverages</b> (suppliers of aromatic substances, etc.)	- Supplier chain management - Incoming/outgoing goods, inventory management	
<b>Petrochemicals</b> (from production through further processing to delivery)	- Safety tests - Spare parts tracking	<b>Maintenance and repair</b> Personnel who have received instruction for deployment in potentially explosive areas.
<b>Pharmaceuticals</b> (suppliers of individual components required for production e.g. medication)	- Maintenance/repair work - Workshop communication - Conformity assessment	
		<b>Production area</b> Personnel who have received instruction on the handling of potentially explosive substances.

Explosion protection

Ex protection type  
Class I Div 2 GP A, B, C, D  
Class II Div 2 GP F, G  
Class III

Certification  
UL for USA/Canada  
File No. E321557

Technical data

Keyboard version  
28, 33, 43 and 53 keys

Display  
3.8", 1/4 VGA colour display with touchscreen 240 x 320 pixels

Barcode options  
SE 950: 1D-Standard Range Scan Engine  
Reading range: approx. 10 cm to 120 cm  
SE 4400: 1D-/2D-Imager Engine  
Reading range: approx. 6 cm to 50 cm

Dimensions (height x width x depth)  
231 mm x 91 mm x 56 mm  
9.1 inch x 3.6 inch x 2.2 inch

Weight  
approx. 720 g  
approx. 23 oz

Ambient temperature  
-20 °C to +50 °C  
-4 °F to +122 °F

Storage temperature  
-40 °C to +70 °C  
-40 °F to +158 °F

Charging temperature  
0 °C to +40 °C  
+32 °F to +104 °F

Humidity  
5 % to 95 % (non-condensing)

Protection class  
IP 64

Processor  
Intel® XScale™ PXA270 Processor/624 MHz

Memory  
128/128 MB RAM/ROM with the option of expansion with SD card: 512 MB, 1 GB or 2 GB

Operating system  
Windows Mobile 2005



**Power supply**

Li-ion battery B7-A2Z0-0002 with 7.4 V/2200 mAh  
The battery can be charged and changed in the safe area!

**Backup battery**

Ni-MH battery (rechargeable) 3.6 V/15 mAh

**Interfaces**

- RS232
- USB

**Application development**

SDK available from the Symbol Developer Central Website

**Audio System**

Integrated microphone and loudspeaker

**Wireless data communication (WLAN)**

**Radio standard**

IEEE 802.11a/b/g

**Data rate/frequency range**

IEEE802.11a: up to 54 Mbit/s - 5 GHz  
IEEE802.11b: up to 11 Mbit/s - 2.4 GHz  
IEEE802.11g: up to 54 Mbit/s - 2.4 GHz

**Output power**

100 mW (Germany and international)

**Antenna**

Integrated in the device

**Note**

The respective radio frequencies and usable channels depend on the country-specific regulations.

**Bluetooth (WPAN)**

Bluetooth version 1.2 with BT Explorer (including manager)

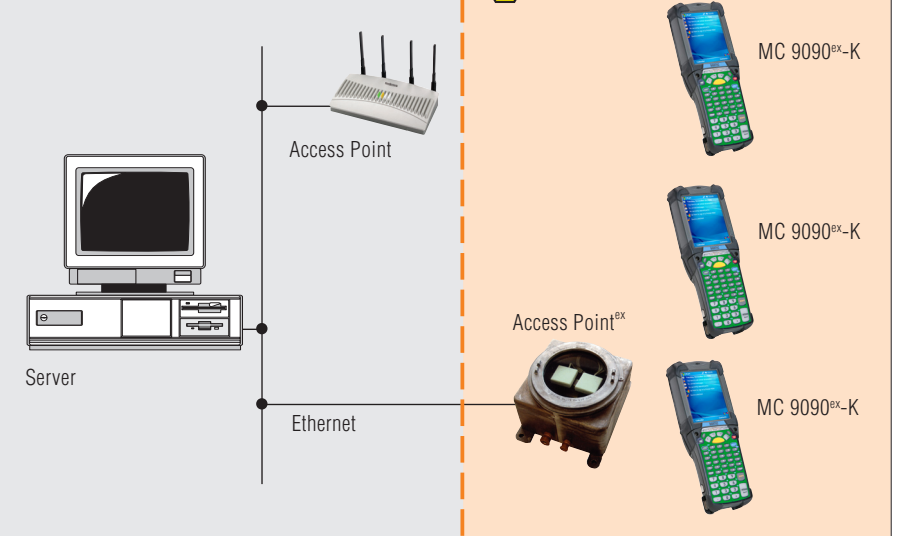
**Maximum data rate**

1 Mbit/s

**Antenna**

Integrated in the device

**Connection possibility**



The MC 9090<sup>ex</sup>-K Mobile Computer with the 1D-Standard Range Scan Engine or the 1D-/2D-Imager Engine recognises the following barcodes:

**1D-Codes:**

Code 11	Interleaved 2 of 5
Code 39	MSI
Code 93	UPCA
Code 128	UPCE
Codabar	UPC/EAN supplementals
Coupon Code	Trioptic 39
Chinese 2 of 5	RSS-14
Discrete 2 of 5	RSS Expanded
EAN-8	RSS Limited
EAN-13	Webcode

**2D-Codes: (only 1D-/2D-Imager Engine)**

Aztec	(Macro) Micro PDF-417
Australian 4-state	Micro PDF-417 PDF-417
Canadian 4-state	microQR
Composite AB	Maxi Code
Composite C	QR Code
Chinese 2 of 5	TLC39
Data Matrix	UK 4-state
Dutch Kix	US Planet
Japanese 4-state	US Postnet
Macro PDF-417	USPS 4-state (US4CB)

**Selection chart**

Data capture options	Code no.	Version	Code no.	SD memory card	Code no.
SE 950 1D-Standard Range Scan Engine	U	28 keys, numeric	A	without SD card	00
		33 keys, numeric	L		
		43 keys, alphanumeric	F	SD card with 512 MB	01
SE 4400 1D-/2D-Imager Engine	K	53 keys, alphanumeric	E	SD card with 1 GB	02
		53 keys with layout for VT emulation	G		
		53 keys with layout for 3270 emulation	H	SD card with 2 GB	03
		53 keys with layout for 5250 emulation	J		

➔ **Complete order no. B7-A229-OK**  0/HC  FA6

**MC 9090<sup>ex</sup>-K** including Li-ion battery (1 piece)

Please insert correct code. Technical data subject to change without notice.

Note: All variants without accessories.

You will find the accessories with order details on the accessories pages.