



MC 9090<sup>ex</sup>-K  
with 1D-/2D-Imager Engine

Features

- International approvals for global usability
- WLAN radio standard IEEE 802.11 a/b/g
- Easy battery changing in the Ex area
- Expanded storage capacity with replaceable SD card
- Various versions 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 Supplier chain management	<b>Dispatch, receiving and stock management departments</b>
<b>Food and beverages</b> (suppliers of aromatic substances, etc.)	Incoming/outgoing goods, inventory management Safety tests	Personnel who have received instruction on the handling of potentially explosive substances.
<b>Petrochemicals</b> (from production through further processing to delivery)	Spare parts tracking Maintenance/repair work	<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)	Workshop communication Conformity assessment	<b>Production area</b> Personnel who have received instruction on the handling of potentially explosive substances.

Explosion protection

ATEX Ex protection type  
II 2G Ex q [ib] IIB T4

Certification  
PTB 05 ATEX 2055

For further details see EC Type Certification.

IECEx Ex protection type  
Ex q [ib] IIB T4

Certification  
IECEx PTB 08.0012

For further details see IECEx Certificate of Conformity.

Other variants are available for:

- Brazil, Japan, Canada, Russia, South Africa and USA
- Mining EU

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 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 59 mm  
9.1 inch x 3.6 inch x 2.3 inch

Weight

approx. 980 g  
approx. 31 oz

Ambient temperature

-20 °C to +40 °C  
-4 °F to +104 °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 (EN 60529)

IP 54

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 17-A1Z0-0001 with 7.4 V/2200 mAh  
Battery can be changed in the Ex 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)

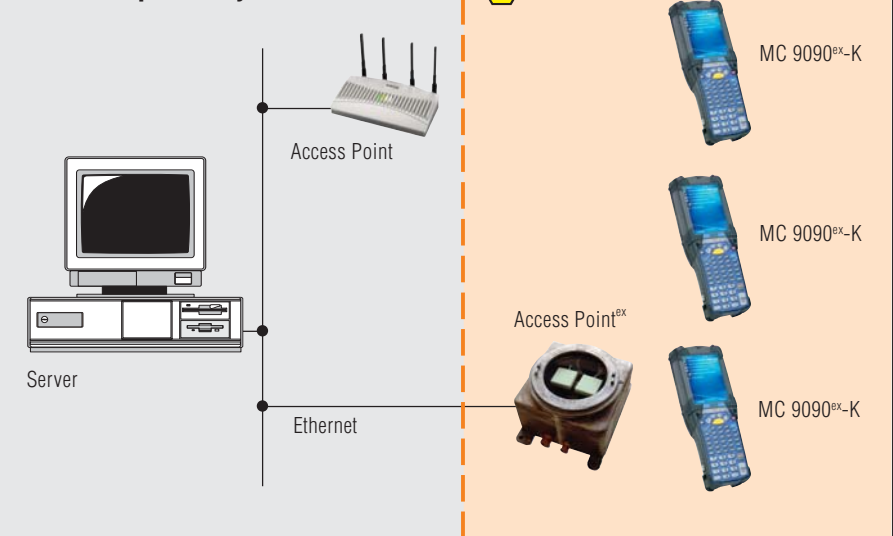
**Maximum data rate**

1 Mbit/s

**Antenna**

Integrated in the device

**Connection possibility**



The MC 9090<sup>ex</sup>-K Mobile Computers with the 1D-/2D- Image Engine recognise 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:**

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**

Version	Code no.	SD memory card	Code no.
28 keys, numeric	<b>A</b>	without SD card	<b>00</b>
33 keys, numeric	<b>L</b>		
43 keys, alphanumeric	<b>F</b>	SD card with 512 MB	<b>01</b>
53 keys, alphanumeric	<b>E</b>		
53 keys with layout for VT emulation	<b>G</b>	SD card with 1 GB	<b>02</b>
53 keys with layout for 3270 emulation	<b>H</b>		
53 keys with layout for 5250 emulation	<b>J</b>	SD card with 2 GB	<b>03</b>

➔ **Complete order no. 17-A119-OKK0/HC FA6**

**MC 9090<sup>ex</sup>-K with 1D-/2D-Imager Engine**

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.