



MC 9090^{ex}-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^{ex}-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^{ex}-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^{ex}-K is working with the IEEE 802.11a/b/g radio standard (direct sequence).

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

➔ **Explosion protection**

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

Certification
PTB 05 ATEX 2055

For further details see EC Type Certification.

IECEX Ex protection type
Ex q [ib] IIC 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)

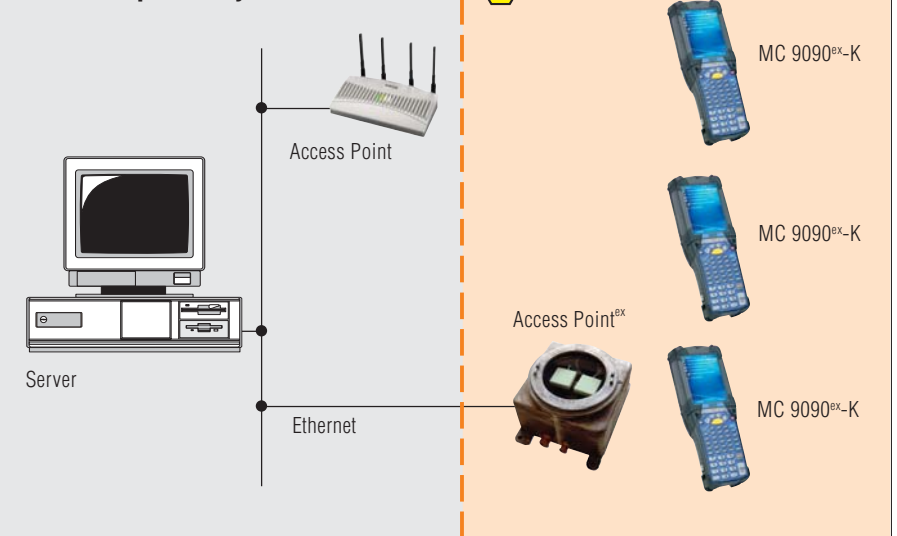
Maximum data rate

1 Mbit/s

Antenna

Integrated in the device

Connection possibility



The MC 9090^{ex}-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	A	without SD card	00
33 keys, numeric	L		
43 keys, alphanumeric	F	SD card with 512 MB	01
53 keys, alphanumeric	E		
53 keys with layout for VT emulation	G	SD card with 1 GB	02
53 keys with layout for 3270 emulation	H		
53 keys with layout for 5250 emulation	J	SD card with 2 GB	03

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

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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.