MC 9090ex-K and -G with external RFID Reader HF

Features

- International approvals for global usability
- WLAN radio standard IEEE 802.11 a/b/g
- Battery can be changed easily by the user
- Expanded storage capacity with replaceable SD card
- Choice of various replaceable keyboard variants
- Service contracts

Description

The MC 9090ex Mobile Computer is a robust device for reliably scanning barcodes and reading RFID tags in hazardous areas.

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

The MC 9090ex 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 colour display with touchscreen technology.

The MC 9090ex is working with the IEEE802.11 a/b/g (Direct sequence).

➜ 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:
- USA, Canada

➜ Technical data

Keyboard version
available with 28, 33, 43 and 53 keys

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

HF Reader
Nominal read/write range

HF ISO 15693:
up to approx. 7 - 12 cm
(approx. 2.75 - 4.72 inch)
(by tags in cheque card format)

HF ISO 14443:
up to approx. 1 - 6 cm
(approx. 0.4 - 2.36 inch)
(by tags in cheque card format)

Antenna
integrated in the modul

Frequency range
13.56 MHz

■ Barcode options

MC 9090ex-K
SE 950: 1D-Standard Range Scan Engine
Reading range: approx. 10 cm up to 120 cm

MC 9090ex-G
SE 1524: 1D-Long Range Scan Engine
Reading range: approx. 10 cm up to 12 m

Dimensions (length x width x height)
MC 9090ex-K
231 mm x 115 mm x 105 mm
(9.1 inch x 4.5 inch x 4.1 inch)

MC 9090ex-G
231 mm x 115 mm x 193 mm
(9.1 inch x 4.5 inch x 7.6 inch)

Weight
MC 9090ex-K
approx. 1320 g (approx. 46 oz)

MC 9090ex-G
approx. 1400 g (approx. 49 oz)

Ambient temperature
-20 °C up to +40 °C (-4 °F up to +104 °F)

Surface temperature
-40 °C up to +70 °C (-40 °F up to +158 °F)

Charging temperature
0 °C up to +40 °C (+32 °F up to +104 °F)

Humidity
5 % to 95 % (non-condensing)

Protection class (EN 60529)
IP 54

CPU
Intel® XScale™ PXA270 prozessor/624 MHz

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

Operating system
Windows Mobile 5.0 or
Windows Mobile 6.1

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
EMDK available through Motorola Solutions Web site

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 (international)

Antenna

integrated in the device

Note

The use of channels and frequencies is
subject to country-specific regulations.

■ Bluetooth (WPAN)

Bluetooth Version 1.2 with BT Explorer
(manager included)

Maximum data rate

1 Mbit/s

Antenna

integrated in the device

Supported Standards

ISO 14443-A compatibel (e.g. mifare, mifare Ultra Light, my-d proximity)
ISO 14443-B compatibel
ISO 15693 compatibel (e.g. I. CodeSLI, Tag-It HF, my-d vicintiy, STM LRI 512)
I. Code 1 (optional, via Firmware update)

Mobile Computer MC 9090ex-K/MC 9090ex-G

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

Selection chart

Mobile Computer	Code no.	Barcodeerfassung	Code no.	Version	Code no.
MC 9090ex-G Gun	G	SE 1524 1D-Long Range Scan Engine	J	28 keys, numeric	A
				33 keys, numeric	L
				43 keys, alphanumeric	F
MC 9090ex-K Brick	K	SE 950 1D-Standard Range Scan Engine	A	53 keys, alphanumeric	E
				53 keys with layout for VT emulation	G
				53 keys with layout for 3270 emulation	H
				53 keys with layout for 5250 emulation	J

➡ **Complete order no.** **17-A119-R** ☐ ☐ **2/HC** ☐ ☐ **A600**

MC 9090ex-K or -G with external RFID Reader LF
including Li-ion battery (1 pc.)

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.

Operating system	Code no.
Windows Mobile 5.0	F
Windows Mobile 6.1	Q