



MC 9090^{ex}-K and -G with external RFID Reader UHF

Features

- International approvals for global usability
- RFID/UHF with wide reading range
- 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 9090^{ex} 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 9090^{ex} 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 9090^{ex} is working with the IEEE802.11 a/b/g (Direct sequence).

Mobile Computer MC 9090^{ex}-K/MC 9090^{ex}-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

Explosion protection

ATEX Ex protection type
 Ex II 2G Ex q [ib] IIC T4
 Ex II 2G Ex q [ib] IIB T4
 (with external antenna)

Certification
 PTB 05 ATEX 2055

For further details see EC Type Certification.

IECEx Kennzeichnung
 Ex q [ib] IIC T4

Prüfbescheinigung
 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

UHF Reader
 Nominal read/write range

UHF internal module:
 up to approx. 30 - 50 cm
 (approx. 11.8 - 19.6 inch)

UHF external module and external antenna:
 up to approx. 1.5 m (approx. 59 inch)
 with EPC Gen 2 Tag with Dog Bone Tag Antenna (UPM Raflatac)

Antenna integrated in the module or external on the module

Frequency range
 865.6 up to 867.5 MHz (Europe)

Barcode options

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

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

Dimensions (length x width x height)

MC 9090^{ex}-K
 231 mm x 115 mm x 105 mm
 (9,1 inch x 4,5 inch x 4,1 inch)

MC 9090^{ex}-G
 231 mm x 115 mm x 193 mm
 (9,1 inch x 4,5 inch x 7,6 inch)

Weight

MC 9090^{ex}-K
 approx. 1320 g (approx. 46 oz)

MC 9090^{ex}-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 processor/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
SDK 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

Selection chart

Mobile Computer	Code no.	Barcode	Code no.	UHF antenna	Code no.	Version	Code no.
MC 9090 ^{ex} -G Gun	G	SE 1524 1D-Long Range Scan Engine	J	external module	4	28 keys, numeric	A
						33 keys, numeric	L
						43 keys, alphanumeric	F
						53 keys, alphanumeric	E
MC 9090 ^{ex} -K Brick	K	SE 950 1D-Standard Range Scan Engine	A	external module and external antenna	7	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 [] [] [] /HC [] [] A600

MC 9090^{ex}-K or -G with external RFID Reader UHF 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