



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

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 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

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

Ex protection type Zone 2

Type B7-A219-R..4/....
II 3G Ex nA [nL] IIC T4
-20 °C ≤ T_a ≤ +50 °C

Type B7-A219-R..7/....
II 3G Ex nA [nL] IIB T4
-20 °C ≤ T_a ≤ +50 °C

Ex protection type Zone 22

II 3D Ex tD A22 IP 54 T90 °C
-20 °C ≤ T_a ≤ +50 °C

Certification

EC Declaration of Conformity
No.: B1-A219-7C0005 X

Other variants are available for:

- Europe
ATEX Zone 1 and ATEX Zone 2/22
- North America
UL Class I, II, III Div 1 or 2

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 external module:
up to approx. 30 up to 50 cm
(approx. 11.8 up to 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 modul or external
on the module

Frequency range
865.6 up to 867.5 MHz (Europe)

Barcode options

SE 950: 1D Standard Range Scan Engine
Reading range: approx. 10 cm up to 120 cm

Dimensions (length x width x height)

231 mm x 115 mm x 105 mm
(9.1 inch x 4.5 inch x 4.1 inch)

Weight

approx. 1020 g (approx. 36 oz)

Ambient temperature

-20 °C up to +50 °C (-4 °F up to +122 °F)

Storage 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 B7-A2Z0-0006
with 7.4 V/2200 mAh

Battery can only be charged and changed in the safe 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

Selection chart

UHF antenna	Code no.	Version	Code no.	Operating system	Code no.
external module	4	28 keys, numeric	A	Windows Mobile 5.0	F
		33 keys, numeric	L		
		43 keys, alphanumeric	F		
		53 keys, alphanumeric	E		
external module and external antenna	7	53 keys with layout for VT emulation	G	Windows Mobile 6.1	Q
		53 keys with layout for 3270 emulation	H		
		53 keys with layout for 5250 emulation	J		

➔ **Complete order no. B7-A219-RKU [] /HC [] [] A600 MC 9090^{ex}-K** with external RFID Reader UHF including Li-ion battery (1 pc.).

Please insert correct code. Technical data subject to change.
Note: All variants without accessories.
You will find the accessories with order details on the accessories pages.