

Mobile Computer MC 9090ex RFID/UHF for ATEX Zone 1

BARTEC



illustration: external module

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

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 9090ex combines the strength of Microsoft's Pocket PC platform with the power of the Intel® XScaleTM 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 $^{\mbox{\tiny EX}}$ is working with the IEEE802.11 a/b/g (Direct sequence).

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

Explosion protection

Ex protection type

II 2G Ex q [ib] IIC T4
II 2G Ex q [ib] IIB T4
(Imager and all versions with external antenna)

Certification

PTB 05 ATEX 2055 For further details see EC Type Certification.

IECEx applied for

Other variants are available for:

- USA, Canada
- ATEX Zone 2/22

🔰 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: approx. 30 - 50 cm (approx. 11.8 - 19.6 inch) UHF external module and external antenna: 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 SE 4400:1D-/2D-Imager Engine Reading range: approx. 6 cm up to 50 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 9090ex-K

231 mm x 91 mm x 105 mm (9.1 inch x 3.6 inch x 4.1 inch)

- (9.1 mch x 3.6 mch x 4. MC 9090^{ex}-G
- 231 mm x 91 mm x 193 mm (9.1 inch x 3.6 inch x 7.6 inch)

Weight

MC 9090[∞]-K approx. 1320 g (approx. 46 oz) MC 9090[∞]-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: 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 through Motorola Developer Central 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 integra

tegrated	in the	device		

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

Mobile Computer MC 9090ex-K

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)		

Mobile Computer	Code no.	Barcode	Code no.	UHF antenna	Code no.	Version	Code no.	SD memory card	Cod no.
MC 9090°×-G Gun		SE 1524 1D-Long Range Scan Engine	J	external module	4	28 keys, numeric	A	without SD card	00
	G					33 keys, numeric	L	SD card with 512 MB	01
						43 keys, alphanumeric	F		
MC 9090°*-K K Brick		SE 950 1D-Standard Range A Scan Engine			-	53 keys, alphanumeric	E	SD card with 1 GB	02
			A	external module and external antenna		53 keys with layout for VT emulation	G		02
	K	SE 4400				53 keys with layout for 3270 emulation	н	SD card with 2 GB	03
		1D-/2D- K Imager Engine			53 keys with layout for 5250 emulation	J			

Complete order no. 17-A119-R . HC FA6 . MC 9090^{ex}-K or -G Mobile Computer 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.