

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® 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} 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

(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 9090ex-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 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 91 mm x 105 mm

(9.1 inch x 3.6 inch x 4.1 inch)

MC 9090ex-G

231 mm x 91 mm x 193 mm

(9.1 inch x 3.6 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: 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!



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

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

integrated 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.	
				external module			28 keys, numeric	A	without SD card	00
MC 9090ex-G Gun	G	G SE 1524 1D-Long Range Scan Engine J	J		4	33 keys, numeric	L	L SD card with 512 MB		
						43 keys, alphanumeric	F		01	
MC 9090°x-K Brick		SE 950		external module		53 keys, alphanumeric	E	SD card with 1 GB	02	
	.,	1D-Standard Range Scan Engine	A			53 keys with layout for VT emulation	G	3D Card With 1 db	02	
	K	SE 4400 external antenna	7	53 keys with layout for 3270 emulation	н	SD card with 2 GB	03			
	1D-/2D- Imager Engine K		53 keys with layout for 5250 emulation	J						

Complete order no.

17-A119-R MC 9090ex-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.