



Mobile Computer MC 9090^{ex}-K with internal RFID reader LF

Features

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

Description

The MC 9090ex-K Mobile Computer is a robust device for RFID reading in hazardous (potentially explosive) areas.

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

The MC 9090ex-K 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 9090ex-K is working with the IEEE 802.11a/b/g radio standard (direct sequence).

Table with 3 columns: Market, Applications, Users. Rows include Automobile industry, Food and beverages, Petrochemicals, and Pharmaceuticals.

Explosion protection

Type

- Class I Div 1 GP C, D T4 Ex ia or
Class I Div 1 GP C, D T4 Ex ia
Class II Div 1 GP F, G
Class III

Certification

UL for USA/Kanada
File No. E226123

Technical data

Keyboard

28, 33, 43 and 53 keys

Display

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

LF Reader

Nominal read/write range approx. 5 cm (approx. 1.9 inch)

Antenna Integrated in the device

Frequency range 125/134 kHz (automatic switched by the reader)

Dimensions (height x width x depth)

231 mm x 91 mm x 59 mm (9.1 in x 3.6 in x 2.3 in)

Weight

approx. 700 g (approx. 22 oz)

Ambient temperature

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

IP 64

CPU

Intel XScale PXA270 processor/624 MHz

Memory

128/128 MB RAM/ROM with the option of expansion with SD card: 512 MB, 1 GB, 2 GB on request

Operating system

Windows Mobile 2005 (English) Upgrade to Windows Mobile 6.1 possible

Power supply

Li-ion battery 17-A1Z0-0002 (2200 mAh/7.4 V)

Battery can be charged and changed in the safe area!



Backup battery

Ni-MH Battery (rechargeable)
15 mAh/3.6 V

Interface

RS232
USB

Application development

SDK available through Symbol Developer Central Website

Audio system

Integrated microphone and loudspeaker

Wireless data communication (WLAN)

Radio standard

IEEE 802.11a/b/g

Data rate/Frequency range

IEEE 802.11a: up to 54 Mbit/s - 5 GHz
IEEE 802.11b: up to 11 Mbit/s - 2.4 GHz
IEEE 802.11g: up to 54 Mbit/s - 2.4 GHz

Output power

100 mW (Germany and International)

Note

The respective radio frequencies and usable channels depend on the country-specific regulations.

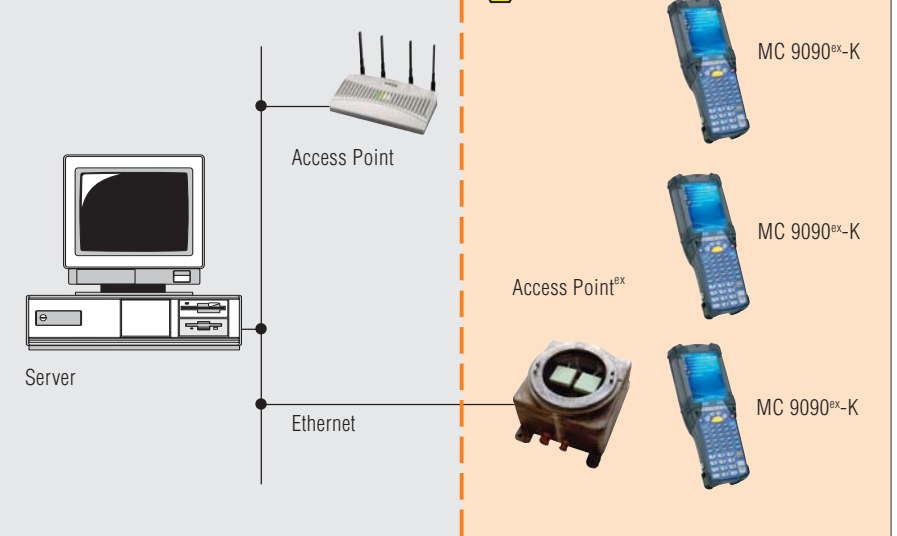
Bluetooth (WPAN)

Bluetooth version 1.2 with BT Explorer (manager included)

Maximum data rate

1 Mbit/s

Connection possibility



Firmware	FW Type	Tag	Frequenz
Btrw-rw. V.1.40.frm			
	Type 1	HITAG S/HITAG 1-RW	125 kHz
	Type 3	Q5/ATA5557/ATA5567-RW	125 kHz
	Type 5	HITAG2-RW	125 kHz
	Type 6	EM4305-RW	125 kHz/134 kHz
Btrw-hdx. V.1.40.frm			
	Type 0	EM 41xx (UNIQUE)-RO	125 kHz
	Type 2	FDX-B ISO 11784/5-RO	134 kHz
	Type 4	HDX Transponder (TI)-RW	134 kHz
Btrw-ti. V.1.40.frm			
	Type 0	EM 41xx (UNIQUE)-RO	125 kHz
	Type 2	FDX-B ISO 11784/5-RO	134 kHz
	Type 4	EM4450/4550 (TITAN)-RW	125 kHz

Selection chart

Type	Code no.	Version	Code no.	SD memory card	Code no.
Class I Div 1	2	28 keys, numeric	A	without SD card	00
		33 keys, numeric	L		
		43 keys, alphanumeric	F	SD card with 512 MB	01
		53 keys, alphanumeric	E		
Class I, II, III Div 1	6	53 keys with layout for VT emulation	G	SD card with 1 GB	02
		53 keys with layout for 3270 emulation	H		
		53 keys with layout for 5250 emulation	J	SD card with 2 GB	03

➔ **Complete order no.** 17-A1 9-RG40/HC FA6

including Li-ion battery (1 piece)

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.