

# Mobile Computer MC 9090ex-K for Class I Div 1 and Class I, II, III Div 1





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).

# **Applications**

# **Automobile industry**

(suppliers of paintwork, for paint shops, etc.)

# Food and beverages

(suppliers of aromatic substances, etc.)

#### **Petrochemicals**

Market

(from production through further processing to delivery)

#### **Pharmaceuticals**

(suppliers of individual components required for production e.g. medication)

- Material flow monitoring
- Production control
- Supplier chain management
- Incoming/outgoing goods, inventory management
- Safety tests
- Spare parts tracking
- Maintenance / repair work
- Workshop communication
- Conformity assessment

# Users

### Dispatch, receiving and stock management departments

Personnel who have received instruction on the handling of potentially explosive substances.

# **Maintenance and repair**

Personnel who have received instruction for deployment in potentially explosive areas.

#### **Production area**

Personnel in the production area who have received instruction on the handling of potentially explosive substances.

# 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 7.6 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)

5 % to 95 % (non-condensing)

### **Protection class**

IP 64

Intel® XScale™ PXA270 prozessor/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!



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# **BARTEC**

#### **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

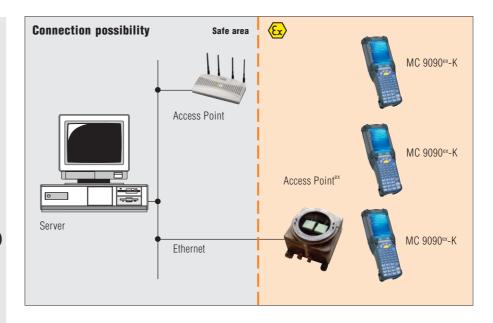
The respective radio frequencies and usable channels depend on the country-specific regulations.

# Bluetooth (WPAN)

Bluetooth version 1.2 with BT Explorer (manager included)

#### **Maximum data rate**

1 Mbit/s



Firmware	FW Type	Tag	Frequenz
Btrw-rw. V.1.40.f	rm		
	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.fr	m	'	
	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						
Туре	Code no.	Version	Code no.	SD memory card	Code no.	
Class I, II, III		28 keys, numeric	A	without SD card	00	
	2	33 keys, numeric	L			
		43 keys, alphanumeric	F	SD card with 512 MB	01	
		53 keys, alphanumeric <b>E</b>				
		53 keys with layout for VT emulation	G	SD card with 1 GB	02	
	6	53 keys with layout for 3270 emulation	Н	SD card with 2 GB		
		53 keys with layout for 5250 emulation	J		03	



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.