



Mobile Computer MC 9090^{ex}-K

Features

- Real time data access
- Maximum usage between charges with rechargeable lithium-ion battery
- WLAN radio technology IEEE 802.11a/b/g
- Bluetooth

Description

The MC 9090^{ex}-K Mobile Computer is a compact unit for safe barcode scanning in hazardous areas.

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

The MC 9090^{ex}-K combines the strength of Microsoft's Pocket PC platform with the power of the Intel® XScale™ PXA270 processor with 625 MHz.

A further highlight is the large easy-to-read 1/4 VGA color display with touchscreen technology. The MC 9090^{ex}-K is working with the IEEE 802.11a/b/g radio standard (direct sequence).

➔ Technical data

Keyboard

28, 43 and 53 keys

Display

3.8", 1/4 VGA colour display

Barcode options

1D-Standard Range or 2D-Scan Engine

Dimensions (height x width x depth)

234 mm x 91 mm x 59 mm
(9.2 in x 3.6 in x 2.3 in)

Weight

Approx. 950 g (approx. 30 oz)

Ambient temperature

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

Storage temperature

-25 °C up to +70 °C (-40 °F up to 158 °F)

Humidity

5 % to 95 % (non-condensing)

Protection class

IP 54 (EN 60529)

CPU

XScale™ PXA270 processor at 625 MHz

Memory

64/128 MB
Additional memory (SD card)
512 MB, 1 GB, 2 GB on request

Operating system

Windows Mobile 2005

Power supply

Replaceable, Li Ion battery pack
(2200 mAh/7.4 V)

Only charge in the safe area!

Backup battery

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

Interface

RS232: max. 115200 bps min. 1200 bps
USBv1.1 (Client)

Application development

SDK available through Symbol
Developer Zone Web site

➔ Explosion protection

Ex protection type

Ex II 2G Ex q [ib] IIC T4

Certification

in preparation

Devices are also available for the North-American market on request.

Market	Applications	Users
Automobile industry (suppliers of paintwork, for paint shops, etc.)	Material flow monitoring	Personnel in the dispatch, receiving and stock management departments who have received instruction on the handling of potentially explosive substances.
Food and beverages (suppliers of aromatic substances, etc.)	Production control	
Petrochemicals (from production through further processing to delivery)	Supplier chain management	Maintenance and repair personnel who have received instruction for deployment in potentially explosive areas.
Pharmaceuticals (suppliers of individual components required for production e.g. medication)	Incoming/outgoing goods, inventory management	Personnel in the production area who have received instruction on the handling of potentially explosive substances.
	Safety tests	
	Spare parts tracking	
	Maintenance / repair work	
	Workshop communication	
	Conformity assessment	
	Allocation of tasks	



The MC 9090^{EX}-K Mobile Computer identifies the following barcodes with the 1D-/2D-Scan Engine:

Code 39	Code 128
Code 93	Codabar
Code 11	Interleaved 2 of 5
Discrete 2 of 5	MSI
EAN-8	EAN-13
UPCA	UPCE
UPC/EAN supplementals	Coupon Code
Trioptic 39	Webcode
TLC 39*	Composite AB*
Composite C*	Micro PDF-417*
PDF-417*	Macro PDF-417*
(Macro) Micro PDF-417*	QR Code*
RSS Expanded*	RSS Limited*
RSS-14*	Data Matrix*
Maxi Code*	US Planet*
UK 4-state*	Australian 4-state*
Canadian 4-state*	Japanese 4-state*
Dutch Kix*	

* only for 2D-Scan Engine

WLAN IEEE 802.11a/b/g

Symbol Spectrum24, IEEE 802.11a/b/g,
(Direct-Sequence Topologie)

Output power

100 mW (international)

Max. Data rate

IEEE 802.11b: max. 11 Mbps
IEEE 802.11a/g: max. 54 Mbps

Antenna

Internal

Frequency range

country dependently
IEEE 802.11b/g: 2.4 to 2.5 GHz
IEEE 802.11a: 5 GHz

Bluetooth

PAN (Bluetooth support)

Bluetooth v1.2 radio with BT Explorer
(manager included)

Max. Data rate

1 Mbps

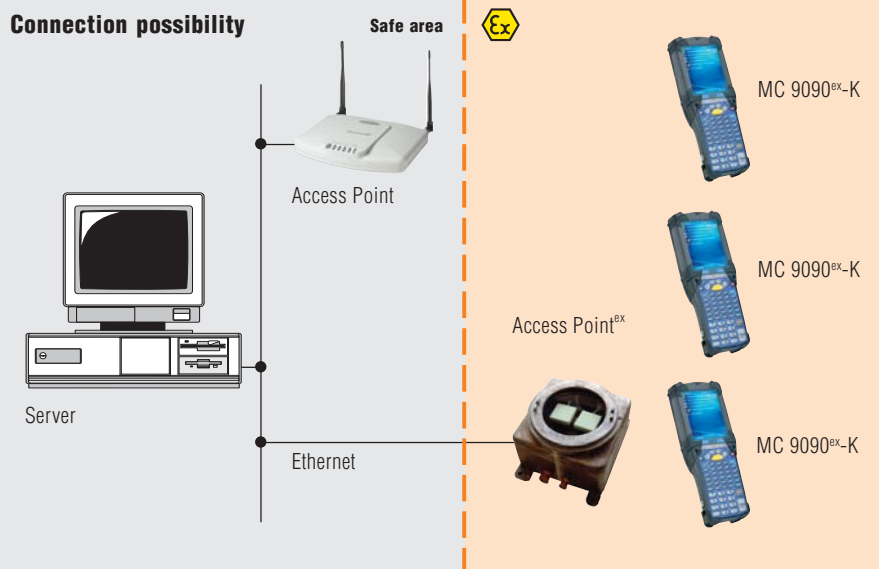
Antenna

Internal

Accessories for the safe area

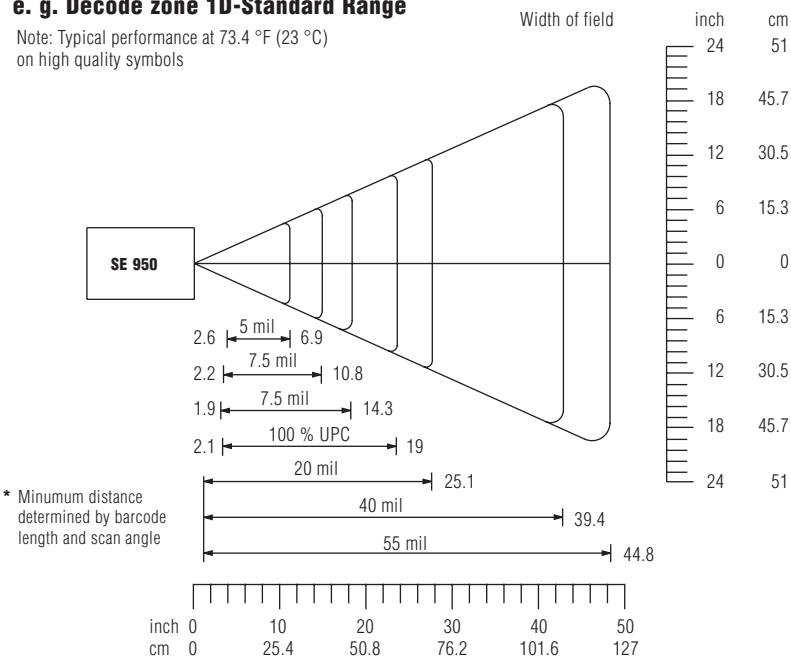
- Single Slot Cradle (Docking station for communication with the PC)
- Rapid charging station UBC 2000 (Basic station 4-slot)
- Battery adapter for UBC 2000 (with discharge option)

Connection possibility



e. g. Decode zone 1D-Standard Range

Note: Typical performance at 73.4 °F (23 °C)
on high quality symbols



Selection chart Mobile Computer MC 9090^{EX}-K

Data capture options	Code no.	Design	Code no.
1D-Standard Range Scan Engine	A	28 keys, alphanumeric via function keys	A
		43 keys, alphanumeric via function keys	F
		53 keys, alphanumeric	E
1D-/2D-Imaging Engine	K	53 keys with additional key code for VT Emulation	G
		53 keys with additional key code for 3270 Emulation	H
		53 keys with additional key code for 5250 Emulation	J



Complete order no.

17-A119-0K ☐ **0/HJ** ☐ **FA600**

Please insert correct code. Technical data subject to change. Note: All variants without accessories.