



*MC 92NO<sup>ex</sup>-K with  
1D-Standard Range Scan Engine  
or 1D/2D Imager Engine*

**Features**

- International approvals for global usability
- WLAN radio standard IEEE 802.11 a/b/g/n
- Easy battery changing in the Ex area
- Expanded storage capacity with replaceable SD card
- Various versions of replaceable keyboards
- Based on MC92NO from Motorola
- Service contracts

**Description**

The MC 92NO<sup>ex</sup>-K Mobile Computer is a robust device for reliable barcode scanning in hazardous (potentially explosive) 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 92NO<sup>ex</sup>-K combines the strength of Microsoft's Pocket PC platform with the power of the TI OMAP 4430 dual-core<sup>®</sup> processor with 1 GHz.

A further highlight is the large easy-to-read 3.7" VGA colour display with touchscreen technology. The MC 92NO<sup>ex</sup>-K is working with the IEEE 802.11a/b/g/n radio standard.

**Explosion protection**

**ATEX Ex protection type**  
II 2G Ex q [ib] IIC T4 Gb

**Certification**  
PTB 13 ATEX 2019 X

**IECEx Ex protection type**  
Ex q [ib] IIC T4 Gb

**Certification**  
IECEx PTB13.0043X

Other variants are available for:

- Brazil, Japan, Canada, Russia, South Africa and USA
- Mining EU

**Technical data**

**Keyboard version**

- 28 keys, numeric
- 43 keys, numeric with (F) function keys
- 53 keys, alphanumeric

**Display**

3.7" VGA colour display  
with touchscreen 480 x 640 pixels

**Barcode options**

SE 965: 1D-Standard Range Scan Engine  
Reading range: up to 2.5 m

SE 4500-SR: 1D/2D Imager Engine  
Reading range: up to 60 cm

Other variants available, see user's manual.

**Dimensions** (height x width x depth)

231 mm x 91 mm x 59 mm  
9.1 inch x 3.6 inch x 2.3 inch

**Weight**

approx. 980 g  
approx. 31 oz

**Ambient temperature**

-20 °C to +40 °C  
-4 °F to +104 °F

**Storage temperature**

-40 °C to +70 °C  
-40 °F to +158 °F

**Charging temperature**

0 °C to +40 °C  
+32 °F to +104 °F

**Humidity**

5 % to 95 % (non-condensing)

**Protection class** (EN 60529)

IP 54

**Processor**

TI OMAP 4430 dual-core<sup>®</sup> processor/1 GHz

**Memory**

1 GB/2 GB flash RAM/ROM with the option of expansion with SD card: up to 32 GB

**Operating system**

Windows Embedded Handheld 6.5.3  
or Windows CE 7.0

**Power supply**

Li-ion battery 17-A1Z0-0001  
with 7.4 V/2200 mAh

Battery can be changed in the Ex area!

Market	Applications	Users
<b>Automobile industry</b> suppliers of paintwork, for paint shops, etc.	Material flow monitoring Production control	<b>Dispatch, receiving and stock management departments</b> Personnel who have been instructed on the handling of potentially explosive substances
<b>Food and beverages</b> suppliers of aromatic substances, etc.	Supplier chain management	
<b>Petrochemicals</b> from production through further processing to delivery	Incoming/outgoing goods, inventory management	<b>Maintenance and repair</b> Personnel who have been instructed on work in potentially explosive substances.
	Safety tests	
<b>Pharmaceuticals</b> suppliers of the individual components required for the production of e. g. medication	Spare parts tracking	<b>Production area</b> Personnel who have been instructed on the handling of potentially explosive substances.
	Maintenance/repair work	
	Workshop communication	
	Conformity verification	
	Task allocation	



**Backup battery**

Ni-MH battery (rechargeable)  
2.4 V/15 mAh

**Interfaces**

- RS232
- USB

**Application development**

EMDK available from Motorola Solutions  
Homepage

**Audio System**

Integrated microphone and loudspeaker

**Voice support**

Voice over IP

**Wireless data communication (WLAN)**

**Radio standard**

IEEE 802.11a/b/g/n

**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
- IEEE802.11n: up to 600 Mbit/s - 2.4/5 GHz

**Output power**

100 mW

**Antenna**

Integrated in the device

**Note**

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

**Bluetooth (WPAN)**

Bluetooth version 2.1 with BT Explorer  
(including manager)

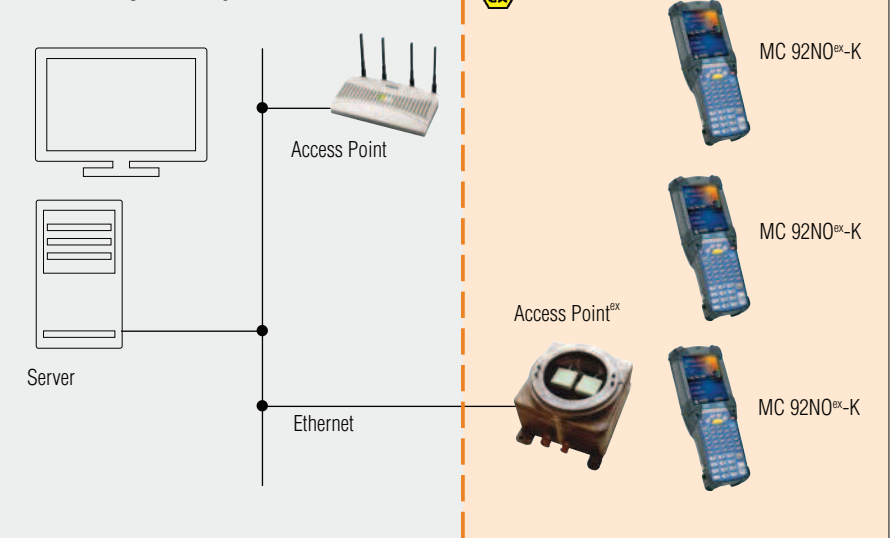
**Max. data rate**

2.1 Mbit/s

**Antenna**

Integrated in the device

**Connection possibility**



The MC 92NO<sup>EX</sup>-K Mobile Computer with the 1D-Standard Range Scan Engine or the 1D-/2D-Imager Engine recognises the following barcodes:

**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

**2D-Codes:** (only with 1D-/2D Imager Engine)

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
PDF-417	TLC39
Data Matrix	UK 4-state
Dutch Kix	US Planet
Japanese 4-state	US Postnet
Macro PDF-417	USPS 4-state (US4CB)

**Selection chart**

Barcode options	Code no.	Version	Code no.	Operating system	Code no.
<b>SE 965</b> 1D-Standard Range Scan Engine	<b>A</b>	28 keys, numeric	<b>A</b>	Windows Embedded Handheld 6.5.3	<b>Q</b>
		43 keys, numeric with (F) function keys	<b>F</b>		
		53 keys, alphanumeric	<b>E</b>		
<b>SE 4500-SR</b> 1D-/2D Imager Engine	<b>3</b>	53 keys, alphanumeric with layout for VT emulation	<b>G</b>	Windows CE 7.0	<b>Y</b>
		53 keys, alphanumeric with layout for 3270 emulation	<b>H</b>		
		53 keys, alphanumeric with layout for 5250 emulation	<b>J</b>		

➔ **Complete order no. 17-A1A3-OK**  **O/SY**   **A600**  
**MC 92NO<sup>EX</sup>-K** including Li-ion battery (1 piece)

Note: All variants without accessories. You will find the accessories with order details on the accessories pages. Please insert correct code. Technical data subject to change without notice.