



MC 92NO^{ex}-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^{ex}-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^{ex}-K combines the strength of Microsoft's Pocket PC platform with the power of the TI OMAP 4430 dual-core® processor with 1 GHz.

A further highlight is the large easy-to-read 3.7" VGA colour display with touchscreen technology. The MC 92NO^{ex}-K is working with the IEEE 802.11a/b/g/n radio standard (direct sequence).

➤ Explosion protection

Ex protection type

Class I Div. 1 Groups C, D T4 Ex ia
Class II Div. 1 Groups F, G
Class III

Certification

UL for USA/Canada
File No. E226123

Other variants are available for:

- Brazil, Japan, Russia, South Africa and Europe
- 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 120 cm

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. 700 g
approx. 22 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 64

Processor

TI OMAP 4430 dual-core® 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 Mobile 6.5.3 or Windows CE 7.0

Power supply

Li-ion battery 17-A1Z0-0002
with 7.4 V/2200 mAh
Battery can be changed in the Ex area!

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

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)

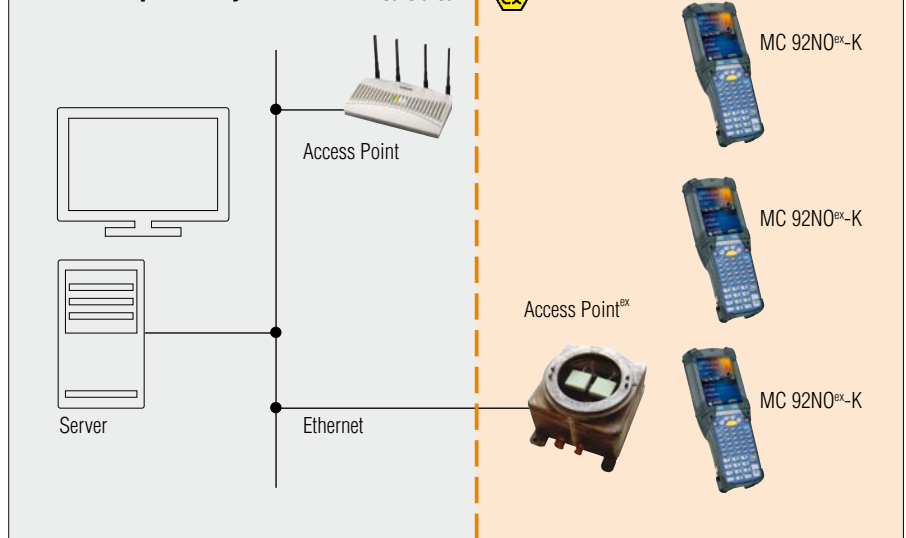
Max. data rate

2.1 Mbit/s

Antenna

Integrated in the device

Connection possibility



The MC 92NO^{ex}-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	Trioctic 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

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

➔ **Complete order no. 17-A1A2-0K** ☐ **0/SY** ☐ **A600**
MC 92NO^{ex}-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.



MC 92NO^{ex}-G with 1D-Long Range Scan Engine or 1D/2D Imager Engine

Features

- International approvals for global usability
- Barcode capture up to 12 m
- 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
- Compatibility with MC92NO from Motorola
- Service contracts

Description

The MC 92NO^{ex}-G Mobile Computer with its pistol grip is a robust device for reliable barcode scanning in hazardous (potentially explosive) areas.

The scan trigger is conveniently positioned at the pistol grip. Thus barcodes can be captured with only one hand. The integrated radio module enables real time data access to your host system.

The MC 92NO^{ex}-G combines the strength of Microsoft's Pocket PC platform with the power of the TI OMAP 4430 dual-core[®] processor with 1 GHz.

A further highlight is the large easy-to-read 3.7" VGA colour display with touchscreen technology. The MC 92NO^{ex}-G is working with the IEEE 802.11a/b/g/n radio standard (direct sequence).

Explosion protection

Ex protection type

Class I Div. 1 Groups C, D T4 Ex ia
Class II Div. 1 Groups F, G
Class III

Certification

UL for USA/Canada
File No. E226123

Other variants are available for:

- Brazil, Japan, Russia, South Africa and Europe
- 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 1524: 1D-Long Range Scan Engine
Reading range: up to 12 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 193 mm
9.1 inch x 3.6 inch x 7.6 inch

Weight

approx. 830 g
approx. 27 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 64

Processor

TI OMAP 4430 dual-core[®] Prozessor/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 Mobile 6.5.3 or Windows CE 7.0

Power supply

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

Battery can be changed in the Ex area!

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

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 EDR
(including manager)

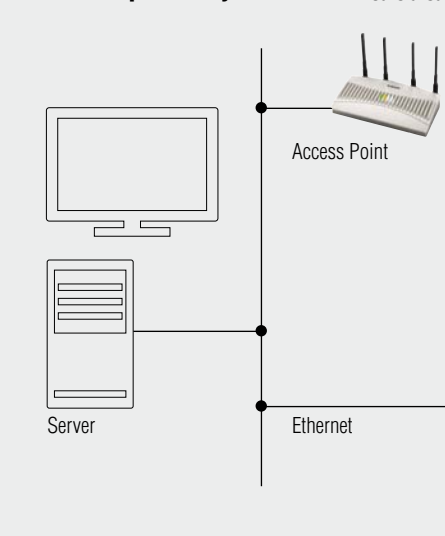
Max. data rate

2.1 Mbit/s

Antenna

Integrated in the device

Connection possibility



Der Mobile Computer MC 92NO^{EX}-G with the 1D-Long 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.
SE 1524 1D-Long Range Scan Engine	J	28 keys, numeric	A	Windows Mobile 6.5.3	Q
		43 keys, numeric with (F) function keys	F		
		53 keys, alphanumeric	E		
SE 4500-SR 1D-/2D Imager Engine	3	53 keys, alphanumeric with layout for VT emulation	G	Windows CE 7.0	Y
		53 keys, alphanumeric with layout for 3270 emulation	H		
		53 keys, alphanumeric with layout for 5250 emulation	J		

➔ **Complete order no. 17-A1A2-0G** ☐ **O/SY** ☐ ☐ **A600**
MC 92NO^{EX}-G 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.



MC 92N0^{ex}-G and -K with extended RFID Reader

Features

- International approvals for global usability
- RFID/UHF with a large reading range
- RFID reader and scanner in one device
- 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
- Service contracts

Description

This unique idea enables a combination of state-of-the-art technologies and so it was possible to integrate barcode data capture and RFID technology in this one device.

Thanks to the modular keyboard and colour display, the data can be processed directly on the mobile computer. The data is transmitted to other corporate divisions via WLAN or Bluetooth. This means that the data is available in real time for further processing.

The software we offer for individual application development is an open source demo version and an SDK file. The SDK file is available for the C# programming language and contains all necessary resources for specific application development.

On the one hand, the open source demo serves to demonstrate the reading and writing of RFID tags; on the other hand, it offers application developers a good basis for customised reader programming.

The MC 92N0^{ex}-IS can be retrofitted with the RFID option in the factory. It cannot be retrofitted by the customer himself.

Explosion protection

Ex protection type

Class I Div. 1 Groups C, D T4 Ex ia
Class II Div. 1 Groups F, G
Class III

Certification

UL for USA/Canada
File No. E226123

Other variants are available for:

- Brazil, Japan, Russia, South Africa and Europe
- 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: 1D-/2D Imager Engine
Reading range: up to 60 cm

only for MC 92N0^{ex}-G

SE 1524: 1D-Long Range Scan Engine
Reading range: up to 12 m

Other variants available, see user's manual.

Dimensions (height x width x depth)

MC 92N0^{ex}-K

231 mm x 115 mm x 105 mm
(9.1 inch x 4.5 inch x 4.1 inch)

MC 92N0^{ex}-G

231 mm x 115 mm x 193 mm
(9.1 inch x 4.5 inch x 7.6 inch)

Weight

MC 92N0^{ex}-K

approx. 1120 g (approx. 40 oz)

MC 92N0^{ex}-G

approx. 1160 g (approx. 41 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 64

Processor

TI OMAP 4430 dual-core® 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-A1Z0-0002
with 7.4 V/2200 mAh

Battery can be changed in the Ex area!

Backup battery

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



Interfaces

- RS232
- USB

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 (Germany and International)

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

LF Reader extended

Supported standards	HITAG S256, HITAG S 2 kbit, HITAG 1, HITAG 2, Q5, ATA5567, EM4305, HDX - RO, HDX (Multipage), EM4xxx (UNIQUE), FDX-B, BDE, ISO 117845, ISO Animal, EM 4450/4550, EM4xxx (UNIQUE), FDX-B, BDE, ISO 11784/5, ISO Animal
Nominal reading/writing distance	approx. 5 cm/approx. 1.9 inches
Antenna	ferrite antenna or air coil antenna
Frequency range	125/134 kHz
Transmitting power	100 mW ± 2dB

HF Reader extended

Supported standards	HF ISO 15693 e.g. I-Code SLI, Tag-IT HFI, my-d vicinity, STM LRI512 HF ISO 14443 e.g. mifare, mifare Ultra Light, my-d proximity, I-Code 1 (optional)
Nominal reading/writing distance	approx. 7 to 12 cm/approx. 2.75 to 4.72 inch approx. 1 to 6 cm/approx. 0.4 to 2.36 inch (with tags in cheque card format)
Antenna	integrated
Frequency range	13.56 MHz
Transmitting power	250 mW ± 2 dB

UHF Reader extended

Supported standards	EPC Class 1 Gen 2 tag
Nominal reading range	approx. 30 to 50 cm/approx. 11.8 to 19.6 inch
Nominal writing distance	approx. 30 to 50 cm/approx. 11.8 to 19.6 inch
Antenna	integrated
Frequency range	Europe 865.6 to 867.5 MHz (EN 302 208) USA 902.0 to 928.0 MHz (FCC CFR 47 part 15.247)
Transmitting power	200 mW ± 2dB

UHF Reader extended with mounted antenna

Supported standards	EPC Class 1 Gen 2 tag
Nominal reading range	approx. 150 cm/approx. 59 inches
Nominal writing distance	approx. 150 cm/approx. 59 inches
Antenna	external (UPM Raflatac)
Frequency range	Europe 865.6 to 867.5 MHz (EN 302 208) USA 902.0 to 928.0 MHz (FCC CFR 47 part 15.247)
Transmitting power	200 mW ± 2dB

Selection chart MC 92NO^{ex}-IS with extended and internal RFID Reader

Barcode options	Code no.	RFID options	Code no.	Version	Code no.	Operating system	Code no.
none**	0	RFID LF Reader internal*	1	28 keys, numeric	A	Windows Embedded Handheld 6.5.3	Q
		RFID LF Reader	2	43 keys, numeric with (F) function keys	F		
SE 965 1D-Standard Range Scan Engine	A	RFID HF Reader	4	53 keys, alphanumeric	E		
SE 4500-SR 1D-/2D Imager Engine	3	RFID UHF (US) Reader	5	53 keys, alphanumeric with layout for VT emulation	G	Windows CE 7.0	Y
		RFID UHF (EU) Reader	6	53 keys, alphanumeric with layout for 3270 emulation	H		
SE 1524 1D Long Range Scan Engine (only MC 92NO ^{ex} -G)	J	RFID UHF (US) Reader and mounted antenna	7	53 keys, alphanumeric with layout for 5250 emulation	J		
		RFID UHF (EU) Reader and mounted antenna	8				

* available only without the scan engine

** combinable only with internal RFID LF Reader.

➔ **Complete order no.**
MC 92NO^{ex}

Version GUN

Version BRICK

17-A1A2-RG ☐ ☐ **/SY** ☐ ☐ **A600**

17-A1A2-RK ☐ ☐ **/SY** ☐ ☐ **A600**

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.



www.logiscenter.com
902 050 030



www.logiscenter.it
02 479 216 97



www.logiscenter.de
info@logiscenter.de



www.logiscenter.pt
308 800 842

About LOGISCENTER

Grupo Logiscenter is the leading provider in Europe of automatic identification and data capture equipments. Our products include barcode printing and reading devices, mobile computing devices, wireless access points, identification cards, and consumables.

Reasons to work with us

Our customers come first. Our objective is not only selling our products but also holding a long-lasting relationship with our customers, based on the benefits and advantages we create for you and your company.

The best brands. We offer products from the best manufacturers worldwide.

Expert technical support team. Our support staff are experts in the products we sell. But not just the products, they can tell you the best solution for your particular problem or need.

Largest stock. We have a permanent stock of more than 12,000 products.

Same-day shipping. For all orders placed and confirmed before 16:00 on working days.

Best prices. With Logiscenter, you can be sure that you are paying a fair price for your products we will not overcharge you.

Easy returns. Damaged or defective products can be returned easily, for an exchange or reimbursement.

Our Brands



MOTOROLA



Intermec

Honeywell

DATALOGIC



datamax • o'neil

Metrologic

LXE

EPSON

elo

star

unitech

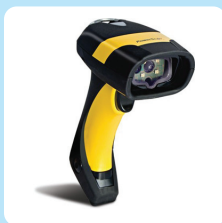
PRINTRONIX

symbol

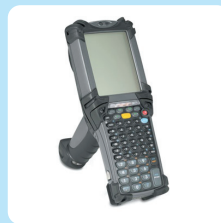
Solutions for: Industry • Consumer • Mobility Transportation and Logistics • Retail • Health



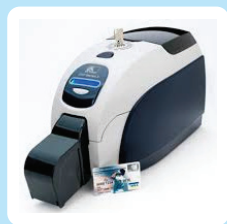
Label printers



Barcode readers



Data terminals & PDA



PVC card printers



RFID



Consumables
(labels, ribbons, PVC cards)



**All Brands
Technical Service**