

MC 92N0

DATASHEET

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

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.

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

Explosion protection

ATEX Ex protection type

- ⊕ II 2G Ex q [ib] IIC T4 Gb
- ⊕ II 2G Ex q [ib] IIB T4 Gb (with mounted antenna)

Certification

PTB 13 ATEX 2019 X

For further details see IECEx Certificate of Conformity.

IECEx Ex protection type

- Ex q [ib] IIC T4 Gb
- Ex q [ib] IIB T4 Gb (with mounted antenna)

Certification

IECEx PTB13.0043X

For further details see IECEx Certificate of Conformity.

Other variants are available for:

- USA, Canada

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. 1320 g (approx. 46 oz)

MC 92N0^{ex}-G
approx. 1400 g (approx. 49 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® 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!

Backup battery

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

Interfaces

- RS232
- USB



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.

➤ Explosion protection

Ex protection type

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

Certification

PTB 13 ATEX 2019 X

IECEx 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 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. 1060 g
approx. 34 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® 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
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	



**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.

➤ Explosion protection

ATEX Ex protection type
Ex 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® 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
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 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)

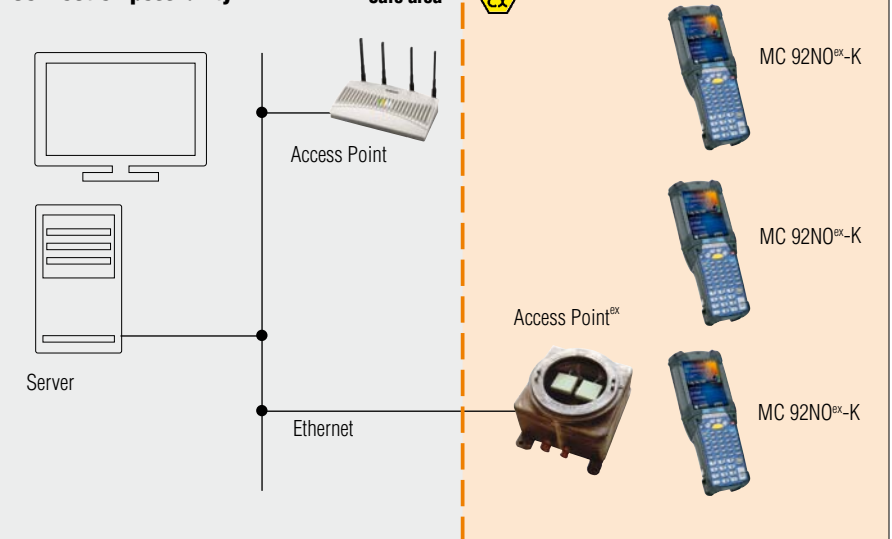
Max. data rate

2.1 Mbit/s

Antenna

Integrated in the device

Connection possibility



The MC 92N0^{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	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)



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 EDR
(including manager)

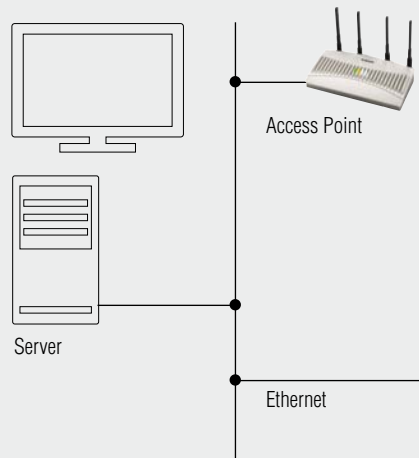
Max. data rate

2.1 Mbit/s

Antenna

Integrated in the device

Connection possibility



The MC 92NO^{ex}-G Mobile Computer 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)

**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 - R0, 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	
HF ISO 15693	approx. 7 to 12 cm/approx. 2.75 to 4.72 inch
HF ISO 14443	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	Europa 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	Europa 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



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 - R0, HDX (Multipage), EM4xxx (UNIQUE), FDX-B, BDE, ISO 11784/5, 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 ± 2 dB

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 HF ISO 15693 HF ISO 14443	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 USA	865.6 to 867.5 MHz (EN 302 208) 902.0 to 928.0 MHz (FCC CFR 47 part 15.247)
Transmitting power	200 mW ± 2 dB

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 USA	865.6 to 867.5 MHz (EN 302 208) 902.0 to 928.0 MHz (FCC CFR 47 part 15.247)
Transmitting power	200 mW ± 2 dB



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
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- Compatibility with MC92NO from Motorola
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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
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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)

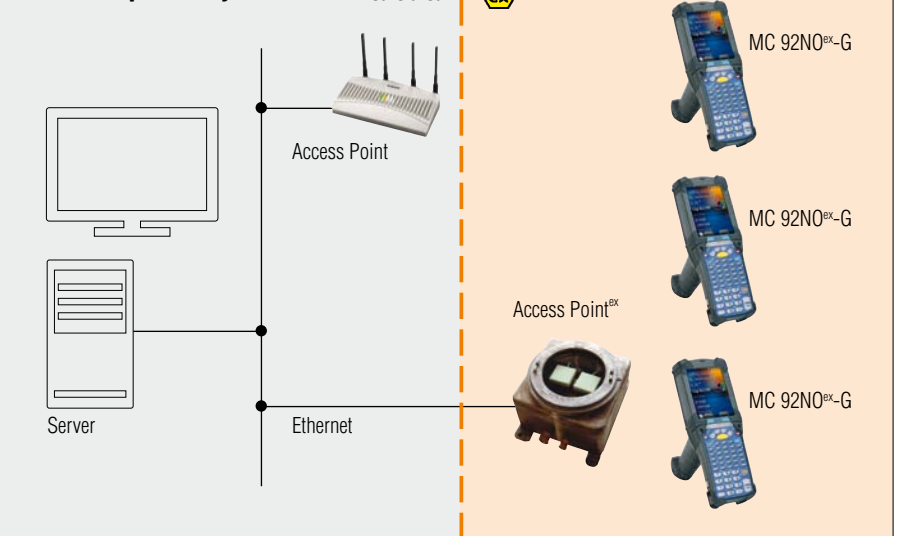
Max. data rate

2.1 Mbit/s

Antenna

Integrated in the device

Connection possibility



Der Mobile Computer MC 92N0^{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)



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)

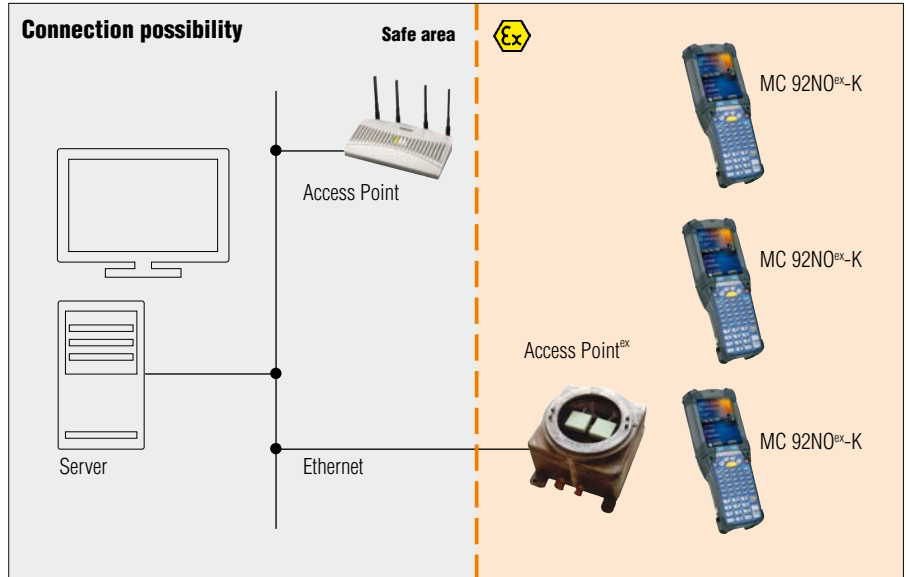
Max. data rate

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	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)



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

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.

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

Explosion protection

UL Ex protection type

Class I Div. 2 Groups A, B, C, D T6
Class II Div. 2 Groups F, G
Class III

Certification

UL File E321557

ATEX Ex protection type

Ex II 3G Ex nA IIC T6 Gc
Ex II 3D Ex tc IIIC T80 °C Dc
-20 °C ≤ T_a ≤ +50 °C

Ex II 3G Ex nA IIB T6 Gc
Ex II 3D Ex tc IIIB T80 °C Dc
-20 °C ≤ T_a ≤ +50 °C
(with mounted antenna)

Certification

B1-A2A3-7C0001, B1-A2A3-7C0002

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. 980 g (approx. 34.5 oz)

MC 92N0^{ex}-G

approx. 1120 g (approx. 39.5 oz)

Ambient temperature

-20 °C to +50 °C (-4 °F to +122 °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 B7-A2Z0-0006
with 7.4 V/2200 mAh

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 and internal

Supported standards	HITAG S256, HITAG S 2 kbit, HITAG 1, HITAG 2, Q5, ATA5567, EM4305, HDX - R0, 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 HF ISO 15693 HF ISO 14443	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 Europa USA	865.6 to 867.5 MHz (EN 302 208) 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 Europa USA	865.6 to 867.5 MHz (EN 302 208) 902.0 to 928.0 MHz (FCC CFR 47 part 15.247)
Transmitting power	200 mW ± 2dB



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
- Expanded storage capacity with replaceable SD card
- Various versions of replaceable keyboards
- Based on 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.

➤ Explosion protection

UL Ex protection type

Class I Div 2 Group A, B, C, D T6
Class II Div 2 Group F, G
Class III

Certification

UL File E321557

ATEX Ex protection type

Ex II 3G Ex nA IIC T6 Gc
Ex II 3D Ex tc IIC T80 °C Dc
-20 °C ≤ T_a ≤ +50 °C

Certification

B1-A2A3-7C0001, B1-A2A3-7C0002

➤ 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. 765 g
approx. 27 oz

Ambient temperature

-20 °C to +50 °C
-4 °F to +122 °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 B7-A2Z0-0006
with 7.4 V/2200 mAh

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 received instruction 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 received instruction for deployment in potentially explosive areas.
Petrochemicals (from production through further processing to delivery)	Safety tests Spare parts tracking Maintenance/repair work	Production area Personnel who have received instruction on the handling of potentially explosive substances.
Pharmaceuticals (suppliers of individual components required for production e. g. medication)	Workshop communication Conformity assessment 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 EDR
(including manager)

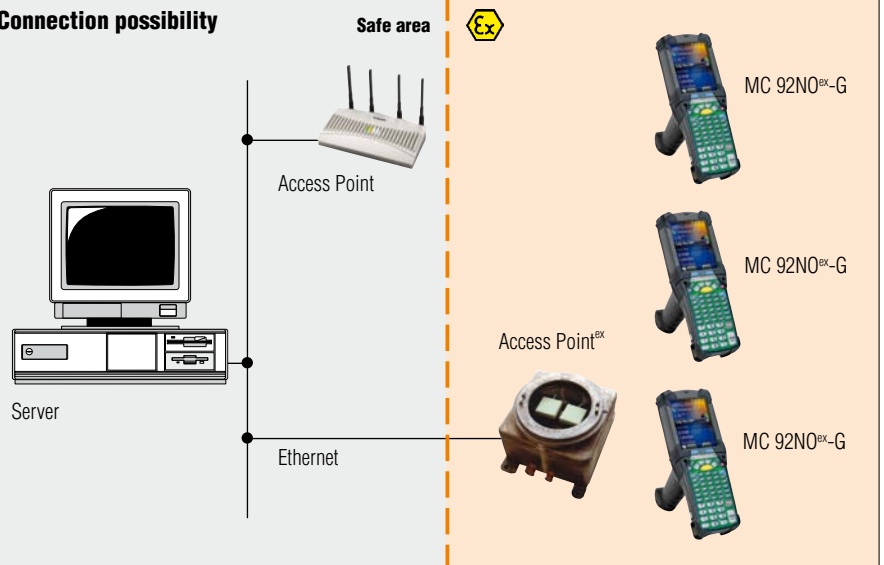
Max. data rate

2.1 Mbit/s

Antenna

Integrated in the device

Connection possibility



The MC 92NO^{ex}-G Mobile Computer 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)



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
- 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).

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

Explosion protection

UL Ex protection type
Class I Div 2 Group A, B, C, D T6
Class II Div 2 Group F, G
Class III

Certification
UL File E321557

ATEX Ex protection type
II 3G Ex nA IIC T6 Gc
II 3D Ex tc IIC T80 °C Dc
-20 °C ≤ T_a ≤ +50 °C

Certification
B1-A2A3-7C0001, B1-A2A3-7C0002

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: approx. 10 cm to 120 cm

SE 4500-SR: 1D/2D Imager Engine
Reading range: approx. 10 cm to 62 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 +50 °C
-4 °F to +122 °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 B7-A2Z0-0006
with 7.4 V/2200 mAh

**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)

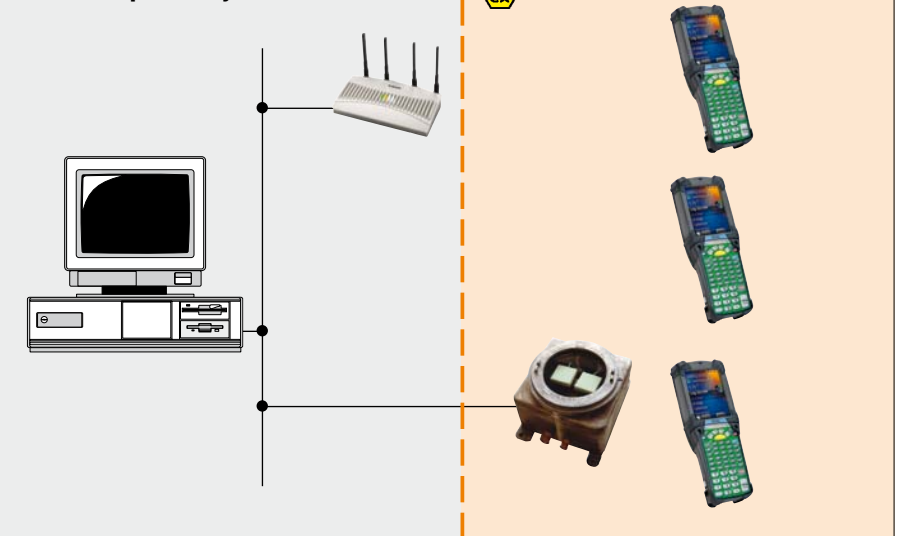
Bluetooth version 2.1 with EDR
(including manager)

Max. data rate

2.1 Mbit/s

Antenna

Integrated in the device

Connection possibility

The MC 92N0^{EX}-G 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
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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 Accessories for the MC 92N0^{EX} Series

Illustrations	Description	
	Spare battery for ATEX/IECEx Zone 1 7.4 V/2200 mAh, lithium ion battery for UL Class I, II, III Division 1 7.4 V/2200 mAh, lithium ion battery	
	Spare battery for ATEX Zone 2 and Zone 22 Class I, II, III Division 2 7.4 V/2200 mAh, lithium ion battery	
	Addition of a memory card IS: Certified Industrial Grade SD card with NI: Recommended ATP Industrial Grade SD card with 1 GB 2 GB 4 GB 8 GB 16 GB 32 GB	
	Display protection film for gas groups IIA and IIB 5 units per pack	
	Spare keyboard with green overlay for ATEX Zone 2 and Zone 22 UL Class I, II, III Division 2 with 28 keys, numerical with 43 keys, numerical, (F) Function keys with 53 keys, numerical with 53 keys, alphanumerical for VT emulation with 53 keys, alphanumerical for 3270 emulation with 53 keys, alphanumerical for 5250 emulation	
	Spare keyboard with blue overlay for ATEX Zone 1 UL Class I, II, III Division 1 with 28 keys, numerical with 43 keys, numerical, (F) Function keys with 53 keys, numerical with 53 keys, alphanumerical for VT emulation with 53 keys, alphanumerical for 3270 emulation with 53 keys, alphanumerical for 5250 emulation	
	Holster made of leather, for attaching to a belt; also suitable for use in a potentially explosive atmosphere. <ul style="list-style-type: none"> - for MC 92N0^{EX}-K RFID - for MC 92N0^{EX}-G RFID - for MC 92N0^{EX}-G and MC 92N0^{EX}-K with belt clip and rotary part 	
	Rotary part for holster	

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