



**MC 92NO<sup>ex</sup>-NI**  
for ATEX Zone 2/22 and  
Class I, II, III Div. 2

**Features**

- Wi-Fi IEEE 802.11
- Proven, robust design for demanding environments
- 3.7" touchscreen made from tempered special glass with excellent readability, also in direct sunlight
- Scan engines for all barcode application areas
- Supports RFID standards LF/HF/UHF
- Interchangeable keypads offer considerable scope for individual features with customized designs
- Compatible with existing accessories from the MC 9000 range
- Can be individually adjusted to customer infrastructure by means of three operating systems available in the factory (Windows®/Android)

**Description**

In close cooperation with Zebra, BARTEC has developed the MC 92 Mobile Computer for global use in potentially explosive atmospheres, based on the successful MC 9000<sup>ex</sup> range.

The device range enables complex applications to be executed, processes to be simplified and productivity boosted. Whereas barcode scanners are used for the classic collection of data, the MC 92 also offers wireless data exchange and direct further processing of data in the field.

The MCs are available with a choice of different barcode scanners in order to read 1D, PDF, 2D and DPM (Device Part Marking) barcodes. The selection permits a customised adjustment that also enables barcode scanning at a distance of up to 12 m (long range).

In the RFID reader area, a UHF version is also available in addition to the LF and HF versions. Furthermore the Mobile Computers offer a combination of barcode scanner and RFID reader in a single device. The RFID reader is available as externally mounted or internal solution without barcode scanning.

Three versions of operating system are available. These are the familiar environment of Windows® Embedded Handheld and Compact, as well as Android, the innovative, most commonly used operating system in the world. This means the user can easily adjust the devices to meet his requirements. The real time data exchange via Wi-Fi or Bluetooth is convenient, saves time and improves work processes.

International approvals such as ATEX/IECEx and UL certificates (other national approvals, e.g. Brazil, South Africa, Russia etc., are available) guarantee global use of the devices. The optimized power management and automatic shutdown via a motion sensor both guarantee long operating times.

**➔ Technical data**

**Keypad design**

- 28 numeric keys
- 43 numeric keys with (F) function keys
- 53 alphanumeric keys
- 53 alphanumeric keys with layout for VT, 3270 and 5250 emulation

**Display**

3.7" VGA colour display with 480 x 640 pixel touchscreen

**Ambient temperature**

-20 °C to +50 °C

**Storage temperature**

-40 °C to +70 °C

**Charge temperature**

0 °C to +40 °C

**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 optionally expanded with SD card (SD HC): up to 32 GB

**Operating system**

- Windows® Embedded Handheld 6.5.3
- Windows® Embedded Compact 7 (CE 7.0)
- Android 4.4.4 (Kit Kat) with Mobility Extension (Mx) of Zebra

**Power supply**

Lithium ion battery B7-A2Z0-0025 with 7.4 V/2400 mAh

**Backup battery**

(permanently installed in the device)

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

**Interfaces**

- RS232
- USB

**Application development**

PSDK and EMDK for Windows und Android available from Zebra Support website

**Software environment**

All applications from Zebra and 3rd party providers are compatible with the Ex version of the MC 92NO<sup>ex</sup>-IS.

Examples are Wavelink Terminal Emulation, tools and applications from Zebra.

**Voice and Audio system**

Integrated microphone, loudspeaker and 2.5 mm headset jack

**Voice communication**

Voice over IP

Voice Directed Picking

Tech Speech Pro approved, speech-based applications through third party provider VDP Clients

Push-To-Talk, Workforce Connect PTT Express (client included) with headset and hands free mode, wired headset support (only for Windows operating system)



**WLAN/Wi-Fi**

**Radio standard**

Win CE/WEH: IEEE 802.11 a/b/g/n/d/h/i  
 Android: IEEE 802.11 a/b/g/n/d/h/l/k/r

**Data rate**

IEEE802.11a: up to 54 Mbit/Sec.  
 IEEE802.11b: up to 11 Mbit/Sec  
 IEEE802.11g: up to 54 Mbit/Sec.  
 IEEE802.11n: up to 65 Mbit/Sec.

**Frequency range (country-related)**

IEEE802.11a: 5 GHz  
 IEEE802.11b: 2.4 GHz  
 IEEE802.11g: 2.4 GHz  
 IEEE802.11n: 2.4 GHz and 5 GHz

**Security**

WPA2 Enterprise, 802.1x; EAP-TLS; TTLS (CHAP, MS-CHAP, MS-CHAPv2, PAP or MD5); PEAP (TLS, MSCHAPv2, EAP-GTC); LEAP, EAP-FAST (TLS, MS-CHAPv2, EAP-GTC), WPA2/AES, CCX v4, FIPS 140-2 compliant and IPv6

**Output power**

210 mW

**Antenna**

Integrated in the device

Note: The respective radio frequencies and usable channels depend on specific country regulations.

**Bluetooth (WPAN)**

**Version**

Microsoft stack (preinstalled as standard)  
 Bluetooth Version 2.1 with EDR

Stonestreet stack (may be optionally activated)  
 Bluetooth 4.0 Plus BLE or WBA

Android devices: Bluetooth version 4.0 with low energy

**Antenna**

Integrated in the device

**Scope of delivery**

- 1 x MC 92NO<sup>ex</sup>
- 1 x battery
- 1 x wrist strap
- 1 x stylus
- 1 x manual

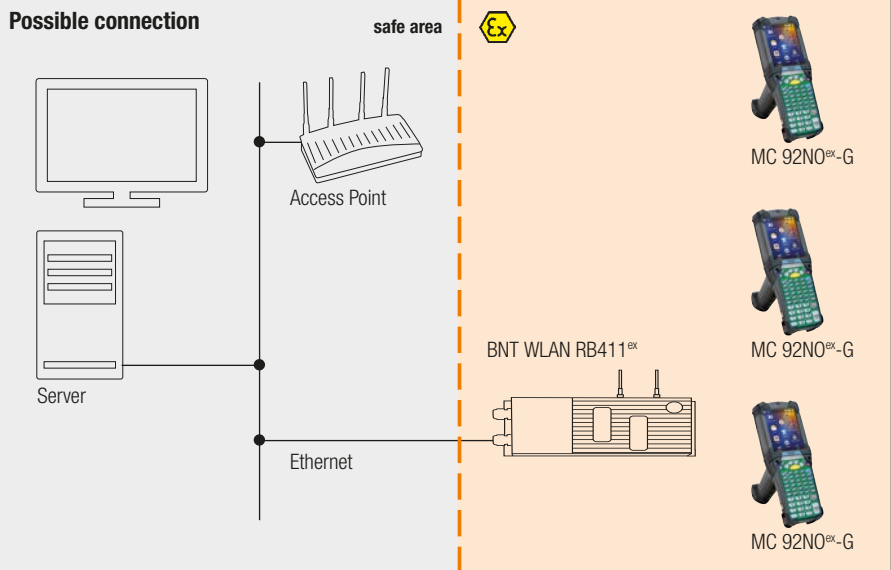
**Optional accessories**

for use in hazardous areas

- Spare battery
- SD memory card
- Display protection film
- Spare keypad (self-assembly)
- Holster
- Spare stylus
- Spare wrist strap

for use in non-hazardous areas

- Single slot cradle
- 4-slot Ethernet cradle
- Battery charger
- 4-slot charging station
- Automatic charging station



Application areas	Features	Technology
Oil and gas industry	Most robust device in its class	3.7" VGA colour display with touchscreen, readable in sunlight
Petrochemical and chemicals	Integrated barcode and RFID Reader (LF, HF, UHF)	High performance dual core processor
Pharmaceuticals industry	Optimized power management and long operating times	"Hot swap" battery change (in Div. 2 and in the safe area)
Logistics		

**Available barcode scanning options**

Barcode scanning		Reading range	Operating systems (available)	
1D barcode scanning			Windows CE/WEH	Android 4.4.4
SE965-SR	1D Standard Range Scan Engine	up to approx. 1.3 m	✓	✓
SE1524-LR	1D Long Range Scan Engine	up to approx. 13.7 m	✓	✓
1D/2D barcode scanning				
SE4500-SR	1D-/2D Omni-Direktional Imager Engine	up to approx. 60 cm	✓	✓
SE4750-SR	1D-/2D Omni-Direktional Imager Engine	up to approx. 88 cm	✓	✓
SE4750-MR	1D-/2D Omni-Direktional Middle Range Imager Engine	up to approx. 4.4 m	✓	✓
SE4600-LR	1D-/2D Omni-Direktional Long Range Imager Engine	up to approx. 9.1 m	✓	-
DPM/1D-/2D barcode scanning				
SE4500-HD	DPM/1D-/2D Imager Engine	up to approx. 28 cm	✓	-

Detailed information about barcode scanning can be found in the user manual or "Integrator Guide" from Zebra Technologies. The maximum reading range of the various scan engines depends on the type of barcode used, the print quality and the module width (in mm).

Supported 1D barcodes 1D symbol/codes		Supported 2D barcodes (only supports the Imager version) 2D symbol/codes		DPM codes (1D/2D symbol/codes) mounted on:
Code 11	Code 39	Aztec	Micro PDF-417	Metal
Code 93	Code 128	Australian 4-state	Maxi Code	Plastic
Codabar	Coupon Code	Canadian 4-state	PDF-417	Glass
Chinesisch 2 of 5	Discrete 2 of 5	Composite AB	QR Code	
Interleaved 2 of 5	Trioptic 39	Composite C	TLC39	Method:
EAN-8	EAN-13	Data Matrix	UK 4-state	Dot peening
UPCA	UPCE	Dutch Kix	US Planet	Laser cut
UPC/EAN add-ons	MSI	Japanese 4-state	US Postnet	Cast
Webcode	RSS-14	PDF-417 Macro	USPS 4-state (US4CB)	Punched
RSS Limited	RSS Expanded	(Macro) Mikro PDF-417	microQR	Moulded



**MC 92NO<sup>ex</sup>-G**

**Description**

The MC 92NO<sup>ex</sup>-G Mobile Computer with its handgrip is a robust unit for secure barcode scanning in potentially explosive atmospheres.

The scan trigger is ideally positioned on the handgrip, enabling barcodes to be conveniently scanned. The integrated radio module ensures real time data exchange with the host system.

The MC 92NO<sup>ex</sup>-G combines the advantages of the Microsoft platform with the strengths of the TI OMAP 4430 dual core<sup>®</sup> processor with 1 GHz.

The large, easy to read 3.7" VGA colour display is equipped with touchscreen technology. The device operates using the IEEE 802.11 radio standard.

**Explosion protection**

**Ex protection type**

**ATEX** Ex II 3G Ex ic IIC T6 Gc  
Ex II 3D Ex ic IIIB T80°C Dc IP 64  
-20 °C ≤ T<sub>a</sub> ≤ +50 °C

**Certification**

EPS 14 ATEX 1 782 X

**UL**

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

**Certification**

UL File E321557 Vol. 1 Sec. 5

**Technical data**

**Dimensions** (height x width x depth)  
231 mm x 91 mm x 196 mm

**Weight** (incl. battery)  
approx. 780 g

**Options for data capture**

<b>SE965-SR</b>	1D-Scan Engine with Standard Range
<b>SE1524-LR</b>	1D-Scan Engine with extended Range
<b>SE4500-SR</b>	Omnidirectional 1D/2D Engine for Image Capture of 1D and 2D symbols
<b>SE4750-SR</b>	Omnidirectional 1D/2D Engine for Image Capture of 1D and 2D symbols
<b>SE4750-MR</b>	Omnidirectional 1D/2D Engine for Image Capture of 1D and 2D symbols with medium range
<b>SE4600-LR</b>	Omnidirectional 1D/2D Engine for Image Capture of 1D and 2D symbols with extended range
<b>SE4500-HD</b>	1D/2D DPM Engine for Image Capture of several DPMs on metal, plastic and glass surfaces, including dot peening, laser etching, moulding, punching or fusing procedures

**Selection chart**

Barcode scanning	Code no.	Version	Code no.	Operating system	Code no.
<b>SE 965-SR</b> 1D Standard Range Scan Engine	<b>A</b>	28 keys, numeric	<b>A</b>	Windows <sup>®</sup> Embedded Handheld 6.5.3	<b>Q</b>
<b>SE 1524-LR</b> 1D Long Range Scan Engine	<b>J</b>	43 keys, numeric with (F)-function keys	<b>F</b>		
<b>SE 4500-SR</b> 1D/2D Imager Engine	<b>3</b>	53 keys, alphanumeric	<b>E</b>	Windows <sup>®</sup> Embedded Compact 7 (CE 7.0)	<b>Y</b>
<b>SE 4750-SR</b> 1D/2D Imager Engine	<b>L</b>		<b>G</b>		
<b>SE 4750-MR</b> 1D/2D Middle Range Imager	<b>M</b>	53 keys, alphanumeric with layout for VT emulation*	<b>H</b>	Android 4.4.4	<b>A</b>
<b>SE 4500-HD**</b> 1D/2D Imager DPM	<b>5</b>	53 keys, alphanumeric with layout for 3270 emulation*	<b>J</b>		
<b>SE 4600-LR**</b> 1D/2D Long Range Imager	<b>9</b>	53 keys, alphanumeric with layout for 5250 emulation*			

**Complete order no. B7-A2A4-0G**  **0/SY**   **A600**  
**MC 92NO<sup>ex</sup>-G** including Li-ion battery (1 piece).

\*Emulation software is not included with delivery. \*\* only with Windows CE/WEH operating system available.

Note: 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<sup>ex</sup>-K

**Description**

The MC 92NO<sup>ex</sup>-K Mobile Computer is a robust unit for secure barcode scanning in potentially explosive atmospheres.

The scan trigger is positioned so that barcodes can be scanned with the greatest convenience. The integrated radio module ensures real time data exchange with the host system.

The MC 92NO<sup>ex</sup>-K combines the advantages of the Microsoft platform with the strengths of the TI OMAP 4430 dual core<sup>®</sup> processor with 1 GHz.

The large, easy to read 3.7" VGA colour display is equipped with touchscreen technology. The device operates using the IEEE 802.11 radio standard.

**Explosion protection**

**Ex protection type**

**ATEX** II 3G Ex ic IIC T6 Gc  
 II 3D Ex ic IIIB T80°C Dc IP 64  
 -20 °C ≤ T<sub>a</sub> ≤ +50 °C

**Certificate of conformity**

EPS 14 ATEX 1 782 X

**UL**

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

**Certification**

UL File E321557 Vol. 1 Sec. 5

**Technical data**

**Dimensions** (height x width x depth)  
 231 mm x 91 mm x 59 mm

**Weight** (incl. battery)  
 approx. 640 g

Options for data capture	
<b>SE965-SR</b>	1D Scan Engine with Standard Range
<b>SE4500-SR</b>	Omnidirectional 1D/2D Engine for Image Capture of 1D and 2D symbols
<b>SE4500-HD</b>	1D/2D DPM Engine for Image Capture of several DPMs on metal, plastic and glass surfaces, including dot peening, laser etching, moulding, punching or fusing procedures

Selection chart					
Barcode scanning	Code no.	Version	Code no.	Operating system	Code no.
<b>SE 965-SR</b> 1D Standard Range Scan Engine	<b>A</b>	28 keys, numeric	<b>A</b>	Windows <sup>®</sup> Embedded Handheld 6.5.3	<b>Q</b>
		43 keys, numeric with (F)-function keys	<b>F</b>		
<b>SE 4500-SR</b> 1D/2D Imager Engine	<b>3</b>	53 keys, alphanumeric	<b>E</b>	Windows <sup>®</sup> Embedded Compact 7 (CE 7.0)	<b>Y</b>
		53 keys, alphanumeric with layout for VT emulation*	<b>G</b>		
<b>SE 4500-HD**</b> 1D/2D Imager DPM	<b>5</b>	53 keys, alphanumeric with layout for 3270 emulation*	<b>H</b>	Android 4.4.4	<b>A</b>
		53 keys, alphanumeric with layout for 5250 emulation*	<b>J</b>		

**Complete order no. B7-A2A4-OK**  **0/SY**   **A600**  
**MC 92NO<sup>ex</sup>-K** including Li-ion battery (1 piece).

\* Emulation software is not included with delivery. \*\* only with Windows CE/WEH operating system available.

Note: 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<sup>ex</sup>-G und MC 92NO<sup>ex</sup>-K**  
with extended RFID and barcode reader

**Description**

The unique concept offers a combination of the most advanced technologies, enabling barcode data scanning and RFID technology to be combined in this device.

Thanks to the modular keypad and colour display, data can be processed directly on the Mobile Computer. The data are transmitted to other areas of the company via WiFi or Bluetooth, so that the data are available for further processing in real time.

As software for the individual application development, BARTEC offers a demo version in Open Source and an SDK file. The SDK file is available for the programming language C# and includes all necessary resources for specific application development within Windows<sup>®</sup> operating systems.

The Open Source demo is used firstly to demonstrate the reading and writing of RFID tags. It also serves as a good basis for the application developer with respect to customised programming of the readers.

The MC 92NO<sup>ex</sup>-NI can be retrofitted in the factory with the RFID option. It cannot be retrofitted by the customer.

**Technical data**

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

**MC 92NO<sup>ex</sup>-G**

with extended RFID  
265 x 91 x 196 mm

with extended RFID + mounted antenna  
287 x 111 x 196 mm

**MC 92NO<sup>ex</sup>-K**

with extended RFID  
234 x 91 x 105 mm

with extended RFID + mounted antenna  
295 x 111 x 159 mm

**Weight** (including battery, depending on version and configuration)

**MC 92NO<sup>ex</sup>-G**

with extended RFID  
approx. 1120 g

with extended RFID + mounted antenna  
approx. 1170 g

**MC 92NO<sup>ex</sup>-K**

with extended RFID  
approx. 980 g

with extended RFID + mounted antenna  
approx. 1030 g

**Operating system**

Windows<sup>®</sup> Embedded Handheld 6.5.3  
Windows<sup>®</sup> Embedded Compact 7 (CE 7.0)

Note:  
Android 4.4.4 (KitKat) is not supported.

**Explosion protection**

**Ex protection type**

- ATEX** II 3G Ex ic IIC T6 Gc  
 II 3D Ex ic IIIB T80 °C Dc IP 64  
-20 °C ≤ T<sub>a</sub> ≤ +50 °C
- II 3G Ex ic IIB T6 Gc  
 II 3D Ex ic IIIB T80 °C Dc IP 64  
-20 °C ≤ T<sub>a</sub> ≤ +50 °C  
(mit angebaute Antenne)

**Certification**

EPS 14 ATEX 1782 X

**UL**

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

**Certification**

UL File E321557 Vol. 1 Sec. 5



Options for data capture	
<b>SE965-SR</b>	1D Scan Engine with Standard Range
<b>SE1524-LR</b>	1D Scan Engine with Standard Range
<b>SE4750-SR</b>	Omnidirectional 1D/2D Engine for Image Capture of 1D and 2D symbols
<b>SE4750-MR</b>	Omnidirectional 1D/2D Engine for Image Capture of 1D and 2D symbols with medium range
<b>SE4600-LR</b>	Omnidirectional 1D/2D Engine for Image Capture of 1D and 2D symbols with extended range
<b>SE4500-SR</b>	Omnidirectional 1D/2D Engine for Image Capture of 1D and 2D symbols
<b>SE4500-HD</b>	1D/2D DPM Engine for Image Capture of several DPMs on metal, plastic and glass surfaces, including dot peening, laser etching, moulding, punching or fusing procedures

LF reader	
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
Read/write range	approx. 5 cm
Antenna	Ferrite antenna or antenna with air coil
Frequency range	125/134 kHz
HF reader	
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)
Read/write range HF ISO 15693 HF ISO 14443	approx. 7 cm to 12 cm approx. 1 cm to 6 cm (with tag in credit card format)
Antenna	integrated
Frequency range	13.56 MHz
UHF reader	
Supported standards	EPC Class 1 Gen 2 tag
Read/write range	approx. 30 cm to 50 cm
Antenna	integrated
Frequency range	Europe (EU) 865.6 to 867.5 MHz (EN 302 208) USA (US) 902.0 to 928.0 MHz (FCC CFR 47 Part 15.247)
UHF reader with mounted antenna	
Supported standards	EPC Class 1 Gen 2 tag
Read/write range	approx. 150 cm
Antenna	external (UPM Raflatac)
Frequency range	Europe (EU) 865.6 to 867.5 MHz (EN 302 208) USA (US) 902.0 to 928.0 MHz (FCC CFR 47 Part 15.247)

**Selection chart MC 92NO<sup>ex</sup>-NI with extended RFID reader**

Barcode scanning	Code no.	RFID Option	Code no.	Version	Code no.	Operating system**	Code no.
<b>SE 965-SR</b> 1D Standard Range Scan Engine	<b>A</b>	RFID LF reader	<b>2</b>	28 keys, numeric	<b>A</b>	Windows® Embedded Handheld 6.5.3	<b>Q</b>
<b>SE 1524-LR</b> 1D Long Range Scan Engine (only MC 92NO <sup>ex</sup> -G)	<b>J</b>	RFID HF reader	<b>4</b>	43 keys, numeric with (F)-function keys	<b>F</b>		
<b>SE 4500-SR</b> 1D/2D Imager Engine	<b>3</b>	RFID UHF (US) reader	<b>5</b>	53 keys, alphanumeric	<b>E</b>		
<b>SE 4750-SR</b> 1D/2D Imager Engine (only MC 92NO <sup>ex</sup> -G)	<b>L</b>	RFID UHF (EU) reader	<b>6</b>	53 keys, alphanumeric with layout for VT emulation*	<b>G</b>	Windows® Embedded Compact 7 (CE 7.0)	<b>Y</b>
<b>SE 4750-MR</b> 1D/2D Middle Range Imager (only MC 92NO <sup>ex</sup> -G)	<b>M</b>	RFID UHF (US) reader and mounted antenna	<b>7</b>	53 keys, alphanumeric with layout for 3270 emulation*	<b>H</b>		
<b>SE 4500-HD**</b> 1D/2D Imager DPM	<b>5</b>	RFID UHF (EU) reader and mounted antenna	<b>8</b>	53 keys, alphanumeric with layout for 5250 emulation*	<b>J</b>		
<b>SE 4600-LR**</b> 1D/2D Long Range Imager (only MC 92NO <sup>ex</sup> -G)	<b>9</b>						

➔ **Complete order no.**  
**MC 92NO<sup>ex</sup>** including Li-ion battery (1 piece).

Version MC 92NO<sup>ex</sup>-G **B7-A2A4-RG**   /SY   **A600**  
Version MC 92NO<sup>ex</sup>-K **B7-A2A4-RK**   /SY   **A600**

\* Emulation software is not included with delivery.  
\*\* Android is not supported.

Note: 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<sup>ex</sup>-G und MC 92NO<sup>ex</sup>-K**  
with internal RFID reader without barcode reader

**Description**

The unique concept offers a combination of the most advanced technologies, enabling barcode data scanning and RFID technology to be combined in this device.

Thanks to the modular keypad and colour display, data can be processed directly on the Mobile Computer. The data are transmitted to other areas of the company via WiFi or Bluetooth, so that the data are available for further processing in real time.

As software for the individual application development, BARTEC offers a demo version in Open Source and an SDK file. The SDK file is available for the programming language C# and includes all necessary resources for specific application development within Windows<sup>®</sup> operating systems.

The Open Source demo is used firstly to demonstrate the reading and writing of RFID tags. It also serves as a good basis for the application developer with respect to customised programming of the readers.

The MC 92NO<sup>ex</sup>-NI can be retrofitted in the factory with the RFID option. It cannot be retrofitted by the customer.

**Technical data**

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

**MC 92NO<sup>ex</sup>-G**

with internal RFID  
234 x 91 x 196 mm

with internal RFID + mounted antenna  
273 x 111 x 196 mm

**MC 92NO<sup>ex</sup>-K**

with internal RFID  
234 x 91 x 59 mm

with internal RFID + mounted antenna  
254 x 111 x 117 mm

**Weight** (including battery, depending on version and configuration)

**MC 92NO<sup>ex</sup>-G**

with internal RFID  
approx. 780 g

with internal RFID + mounted antenna  
approx. 830 g

**MC 92NO<sup>ex</sup>-K**

with internal RFID  
approx. 640 g

with internal RFID + mounted antenna  
approx. 690 g

**Operating system**

Windows<sup>®</sup> Embedded Handheld 6.5.3  
Windows<sup>®</sup> Embedded Compact 7 (CE 7.0)

Note:  
Android 4.4.4 (KitKat) is not supported.

**Explosion protection**

**Ex protection type**

**ATEX** Ex II 3G Ex ic IIC T4 Gc  
Ex II 3D Ex ic IIIB T130 °C Dc IP 64  
-20 °C ≤ T<sub>a</sub> ≤ +50 °C

Ex II 3G Ex ic IIB T4 Gc  
Ex II 3D Ex ic IIIB T130 °C Dc IP 64  
-20 °C ≤ T<sub>a</sub> ≤ +50 °C  
(with mounted antenna)

**Certification**

EPS 14 ATEX 1 782 X

**UL**

Class I Div. 2 Group A, B, C, D T4  
Class II Div. 2 Group F, G  
Class III

**Certification**

UL File E321557 Vol. 1 Sec. 5



LF reader	
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
Read/write range	approx. 5 cm
Antenna	integrated ferrite antenna
Frequency range	125/134 kHz
HF reader	
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)
Read/write range HF ISO 15693 HF ISO 14443	approx. 5 cm to 6 cm approx. 4 cm to 5 cm (with tag in credit card format)
Antenna	integrated
Frequency range	13.56 MHz
UHF reader	
Supported standards	EPC Class 1 Gen 2 tag
Read/write range	approx. 30 cm to 50 cm
Antenna	integrated
Frequency range	Europe (EU) 865.6 to 867.5 MHz (EN 302 208) USA (US) 902.0 to 928.0 MHz (FCC CFR 47 Part 15.247)
UHF reader with mounted antenna	
Supported standards	EPC Class 1 Gen 2 tag
Read/write range	approx. 150 cm
Antenna	external (UPM Raflatac)
Frequency range	Europe (EU) 865.6 to 867.5 MHz (EN 302 208) USA (US) 902.0 to 928.0 MHz (FCC CFR 47 Part 15.247)

**Selection chart MC 92N0<sup>ex</sup>-NI with internal RFID reader**

RFID internal option	Code no.	Version	Code no.	Operation system**	Code no.
RFID LF reader	<b>1</b>	28 keys, numeric	<b>A</b>	Windows® Embedded Handheld 6.5.3	<b>Q</b>
RFID HF reader	<b>3</b>	43 keys, numeric with (F)-function keys	<b>F</b>		
RFID UHF (US) reader	<b>A</b>	53 keys, alphanumeric	<b>E</b>		
RFID UHF (EU) reader	<b>B</b>	53 keys, alphanumeric with layout for VT emulation*	<b>G</b>	Windows® Embedded Compact 7 (CE 7.0)	<b>Y</b>
RFID UHF (US) Reader and mounted antenna	<b>C</b>	53 keys, alphanumeric with layout for 3270 emulation*	<b>H</b>		
RFID UHF (EU) Reader and mounted antenna	<b>D</b>	53 keys, alphanumeric with layout for 5250 emulation*	<b>J</b>		

**Complete order no.**

**MC 92N0<sup>ex</sup>** including Li-ion battery (1 piece).

Version MC 92N0<sup>ex</sup>-G **B7-A2A4-RG0** /SY **A600**  
 Version MC 92N0<sup>ex</sup>-K **B7-A2A4-RK0** /SY **A600**

\* Emulation software is not included with delivery.

\*\* Android is not supported.

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