



## MC 9190<sup>ex</sup>-NI

### Description

The MC 9190<sup>ex</sup>-NI 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 9190<sup>ex</sup>-NI combines the strength of Microsoft's Pocket PC platform with the power of the Marvell PXA320 processor with 806 MHz.

A further highlight is the large easy-to-read VGA color display with touchscreen technology. The MC 9190<sup>ex</sup>-NI is working with the IEEE 802.11a/b/g radio standard (direct sequence).

### Features

- WLAN radio standard IEEE 802.11 a/b/g
- Various barcode applications with various scan engines
  - 1D Barcode capture up to 12 m
  - 1D/2D Barcode capture up to 9.1 m
- Battery can be changed easily by the user
- Expanded storage capacity with replaceable SD card
- Various variants of replaceable keyboards
- Compatibility with MC9190 from Motorola
- Service contracts

### Explosion protection

#### Ex protection type

- Class I Div 2 GP A, B, C, D
- Class II Div 2 GP F, G
- Class III

#### Certification

- UL for USA/Canada
- File No. E321557

### Technical data

#### Keyboard version

28, 43 and 53 keys

#### Display

3.7" VGA colour display with touchscreen 480 x 640 pixels

#### Barcode options

##### SE1524-ER 1D Long Range Scan Engine

Reading range  
up to approx. 13.7 m  
up to approx. 45 feet

##### SE4600 1D/2D Long Range Imager Engine

Extended range omni directional reads  
1D and 2D symbols  
Reading range close  
up to approx. 20 cm  
up to approx. 8 inch

Reading range far  
up to approx. 9.1 m  
up to approx. 30 feet

##### SE4500-SR 1D/2D Imager Engine

Omni directional reads 1D and 2D symbols  
Reading range close  
up to approx. 5 cm  
up to approx. 2 inch

Reading range far  
up to approx. 62 cm  
up to approx. 24 inch

##### SE4500-HD 1D/2D Imager Engine with DPM reads a wide variety of DPM marks on metal, plastic and glass surfaces, including: dot peening, laser etching, molding, stamping or casting.

Reading range close  
up to approx. 4 cm  
up to approx. 1.6 inch

Reading range far  
up to approx. 28 cm  
up to approx. 11 inch

#### 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. 710 g  
approx. 25 oz  
depending on version and configuration

#### 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)

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



**Protection class**

IP 64

**Processor**

Marvell PXA320-Prozessor/806 MHz

**Memory**

256 MB RAM/1 GB Flash  
with the option of expansion with SD card/  
up to 32 GB

**Operating system**

Windows Mobile 6.5

**Power supply**

Li-ion battery B7-A2Z0-0006  
with 7.4 V/2200 mAh

The battery can only be charged and changed in the safe area!

**Backup battery**

Ni-MH battery (rechargeable)

**Interfaces**

- RS232
- USB

**Application development**

SDK available

**Audio System**

Integrated microphone and loudspeaker

■ **Wireless data communication (WLAN)**

**Radio standard**

IEEE 802.11a/b/g

**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

**Output power**

100 mW (US 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 EDR

**Antenna**

Integrated in the device

The MC 9190<sup>ex</sup>-NI Mobile Computer with 1D Scan Engine or with 1D/2D Imager Engine recognise 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 1D-/2D-Imager Engine)

Aztec	(Macro) Micro PDF-417
Australian 4-state	Micro 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.
<b>SE4500-SR</b> 1D/2D-Imager Engine	<b>3</b>	28 keys, numeric	<b>A</b>
		43 keys, alphanumeric	<b>F</b>
<b>SE4500-HD</b> 1D-/2D-Imager Engine with DPM	<b>5</b>	53 keys, alphanumeric	<b>E</b>
		53 keys with layout for VT emulation	<b>G</b>
<b>SE4600</b> 1D-/2D-Long Range Imager Engine	<b>9</b>	53 keys with layout for 3270 emulation	<b>H</b>
		53 keys with layout for 5250 emulation	<b>J</b>

➔ **Complete order no. B7-A282-0G**  **O/SW**  **QA600**  
**MC 9190<sup>ex</sup>-NI** including Li-ion battery (1 piece)

Please insert correct code. Technical data subject to change without notice.

Note: All variants without accessories.

You will find the accessories with order details on the accessories pages.