



*MC 9090<sup>ex</sup>-G*  
with 1D-Long Range Scan Engine

**Features**

- International approvals for global usability
- Barcode capture up to 12 m
- WLAN radio standard IEEE 802.11 a/b/g
- Easy battery changing in the Ex area
- Expanded storage capacity with replaceable SD card
- Various versions of replaceable keyboards
- Compatibility with MC9090 from Motorola
- Service contracts

**Description**

The MC 9090<sup>ex</sup>-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 9090<sup>ex</sup>-G combines the strength of Microsoft's Pocket PC platform with the power of the Intel® XScale™ PXA270 processor with 624 MHz.

A further highlight is the large easy-to-read 1/4 VGA color display with touchscreen technology. The MC 9090<sup>ex</sup>-G is working with the IEEE 802.11a/b/g radio standard (direct sequence).

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	

**Explosion protection**

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

**Certification**  
PTB 05 ATEX 2055  
For further details see EC Type Certification.

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

**Certification**  
IECEx PTB 08.0012  
For further details see IECEx Certificate of Conformity.

- Other variants are available for:
- Brazil, Japan, Canada, Russia, South Africa and USA
  - Mining EU

**Technical data**

**Keyboard version**  
28, 33, 43 and 53 keys

**Display**  
3.8", 1/4 VGA colour display with touchscreen 240 x 320 pixels

**Barcode options**  
SE 1524: 1D-Long Range Scan Engine  
Reading range: 10 cm to 12 m

**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**  
Intel® XScale™ PXA270 Processor/624 MHz

**Memory**  
128/128 MB RAM/ROM with the option of expansion with SD card: 512 MB, 1 GB or 2 GB

**Operating system**  
Windows Mobile 2005



# Mobile Computer MC 9090<sup>EX</sup>-G for ATEX/IECEX Zone 1

### 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)  
3.6 V/15 mAh

### Interfaces

- RS232
- USB

### Application development

SDK available from the Symbol Developer  
Central Website

### Audio System

Integrated microphone and loudspeaker

The MC 9090<sup>EX</sup>-G Mobile Computer with the  
1D-Long Range Scan Engine recognises the  
following 1D barcodes:

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

### 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 (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 1.2 with BT Explorer  
(including manager)

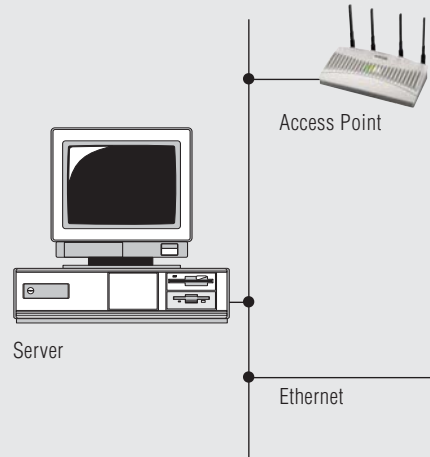
#### Max. data rate

1 Mbit/s

#### Antenna

Integrated in the device

### Connection possibility



### Selection chart

Version	Code no.
28 keys, numeric	<b>A</b>
33 keys, numeric	<b>L</b>
43 keys, alphanumeric	<b>F</b>
53 keys, alphanumeric	<b>E</b>
53 keys with layout for VT emulation	<b>G</b>
53 keys with layout for 3270 emulation	<b>H</b>
53 keys with layout for 5250 emulation	<b>J</b>

### Complete order no. 17-A119-0GJ0/HC FA600

**MC 9090<sup>EX</sup>-G** with 1D-Long Range Scan Engine  
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.