Mobile Computer MC 9090^{ex}-G with 1D-Long Range Scan Engine or 1D-/2D-Imager Engine

Explosion protection

Ex protection type
Class I Div 1 GP C, D T4 Ex ia
or
Class I Div 1 GP C, D T4 Ex ia
Class II Div 1 GP F, G
Class III

Certification
UL for USA/Kanada
File No. E226123

Other variants are available for:
- Europe, Brazil, Japan, Canada, Russia, South Africa
- 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 up 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. 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
IP 64

Processor
Intel® XScale™ PXA270 Processor/624 MHz

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

Operating system
Windows Mobile 5.1 or
Windows Mobile 6.1

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

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^{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 9090^{ex}-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^{ex}-G is working with the IEEE 802.11a/b/g 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** Personnel who have received instruction on the handling of potentially explosive substances.
Food and beverages (suppliers of aromatic substances, etc.)	- Production control - Supplier chain management - Incoming/outgoing goods, inventory management	
Petrochemicals (from production through further processing to delivery)	- Safety tests - Spare parts tracking	**Maintenance and repair** Personnel who have received instruction for deployment in potentially explosive areas.
Pharmaceuticals (suppliers of individual components required for production e.g. medication)	- Maintenance/repair work - Workshop communication - Conformity assessment	**Production area** Personnel who have received instruction on the handling of potentially explosive substances.

Mobile Computer MC 9090ex-G for Class I Div 1 and Class I, II, III Div 1

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

■ 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)
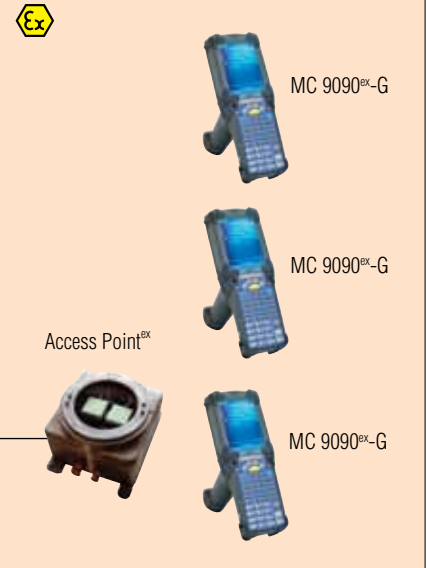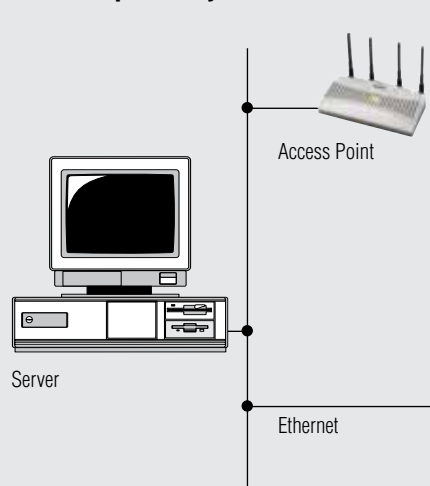Bluetooth version 1.2 with BT Explorer (including manager)

Max. data rate
1 Mbit/s

Antenna
Integrated in the device

Connection possibility

Barcodes
The Mobile Computer MC 9090ex-G recognises following barcodes according its design:

1D-Long Range Scan and 1D-/2D-Imager Engine	
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

only 1D-/2D-Imager Engine	
2D-Codes	
Aztec	(Macro) Micro PDF-417
Australian 4-state	Micro PDF-417 PDF-417
Canadian 4-state	Micro QR
Composite AB	Maxi Code
Composite C	QR Code
Chinese 2 of 5	TLC39
Data Matrix	UK 4-state
Dutch Kix	US Planet
Japanese 4-state	US Postnet
Macro PDF-417	USPS 4-state (US4CB)

Selection chart

Ex protection type	Code no.	Version	Code no.	Operating system	Code no.
Class 1 Div 1	2	28 keys, numeric	A	Windows Mobile 5.0	F
		33 keys, numeric	L		
		43 keys, alphanumeric	F		
		53 keys, alphanumeric	E		
Class I, II, III Div 1	6	53 keys with layout for VT emulation	G	Windows Mobile 6.1	Q
		53 keys with layout for 3270 emulation	H		
		53 keys with layout for 5250 emulation	J		

Complete order no.   17-A1☐9-0GJ0/HC ☐ ☐A600

MC 9090ex-G 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.