

Mobile Computer

MC 9090^{ex} RFID/LF

MC 9090^{ex} RFID/HF

MC 9090^{ex} RFID/UHF

Type 17-A1.9-R.../H.....



Document no. 11-A119-7D0003

Status: 4 August 2010

English

Appendix A Supplement for User Manual

ATEX Zone 1

UL Class I Division 1

UL Class I, II, III Division 1

This appendix contains information on the RFID devices.
A further applicable document is the user manual for
the MC 9090^{ex} Mobile Computer for

- ATEX Zone 1 or
- UL Class I, Div 1 and
- UL Class I, II, III Div 1

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1 Product Description

The MC 9090^{ex} RFID mobile computer is a compact portable device and is designed by BARTEC for use in hazardous areas. Accordingly, the extensive communication options, already standard in other areas, are available to the user in hazardous areas also.



The MC 9090^{ex} RFID mobile computer is available in two versions, with pistol grip (MC 9090^{ex} Gun) and without (MC 9090^{ex} Brick). In these versions, the MC 9090^{ex} is a compact unit for scanning bar codes and RFID tags reliably.

The scan trigger is ideally positioned on the device, which allows bar codes and RFID tags to be captured easily. The integrated radio module ensures a real-time exchange of data with the host system.

The MC 9090^{ex} RFID combines the advantages of the Microsoft Pocket PC Platform with the strengths of the Intel® XScale™ PXA270 processor with 624 MHz.

The large, easy-to-read 1/4 VGA colour display is equipped with touch screen technology. The device works with the IEEE802.11 a/b/g (direct sequence) radio standard.

2 Safety Instructions

2.1 Warnings about the Mobile Computers



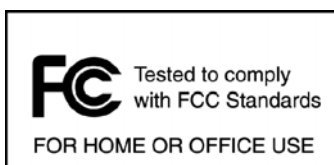
MC 9090^{ex} mobile computer types 17-A119-R ** 6/H ***, type 17-A119-R ** 7 *** with external RFID/UHF antenna may not be used in processes that generate high charge levels.

High charge levels can occur in particular with electrostatic painting, pneumatically conveyed dust, flowing liquids and droplets, mechanically driven belts, brushes and foils etc.

2.2 Warnings for Use of Wireless Devices

Please observe all warning notices with regard to the usage of wireless devices.

2.2.1 Radio Frequency Interference Requirements - FCC



Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against

harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/tv technician for help.

FCC Note according to 15.21

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Radio Transmitters (Part 15)

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

2.2.2 Radio Frequency Interference Requirements – Canada

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

Radio Transmitters

This device complies with RSS 210 of Industry & Science Canada. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

Label Marking: The Term "IC:" before the radio certification only signifies that "Industry Canada" technical specifications were met.

2.3 Warnings for screen protection



The screen protection type 17-A1Z0-0003 of the MC 9090^{ex} Mobile Computer types 17-A119-H ****/ ***** may be used only in the gas group IIB Ex.

3 Technical Data

3.1 RFID/LF Internal Module/only UL

3.1.1 Explosion Protection

Types	17-A129-R*04/H *****
Ex protection type	Class I Division 1 Groups C and D
Certification	UL file E226123
Types	17-A169-R*04/H *****
Ex protection type	Class I Division 1 Groups C and D Class II Division 1 Groups F and G Class III Division 1
Certification	UL file E226123

3.1.2 General Data

Ambient temperature	-20 °C to +40 °C	-4 °F to +104 °F
Weight including battery		
MC9090 ^{ex} -K	approx. 700 g	approx. 24 oz
MC9090 ^{ex} -G	approx. 830 g	approx. 29 oz

3.1.3 Radio Data Transmission RFID/LF (Internal module)

Nominal writing distance	approx. 5 cm	approx. 1.9 inch
Antenna	Integrated in the device as a ferrite antenna or air coil antenna	
Frequency range	125/134 kHz	
Transmitting power	100 mW ± 2 dB	

3.1.4 Standards supported by firmware

Firmware version Btrw-rw.V.1.40.frm	Firmware version Btrw-hdx.V.1.40.frm	Firmware version Btrw-ti.V.1.40.frm
HITAG S256	HDX - RO	EM 4450/4550
HITAG S 2 kbit	HDX (Multipage)	EM4xxx (UNIQUE)
HITAG 1	EM4xxx (UNIQUE)	FDX-B
HITAG 2	FDX-B	BDE
Q5	BDE	ISO 11784/5
ATA5567	ISO 117845	ISO Animal
EM4305	ISO Animal	

3.2 RFID/LF External Module/ATEX and UL

3.2.1 Explosion Protection

Types	17-A119-R..1/H.....
Ex protection type	Ex II 2G Ex q [ib] IIC T4
Certification	PTB 05 ATEX 2055
Types	17-A129-R..1/H.....
Ex protection type	Class I Division 1 Groups C and D
Certification	UL file E226123
Types	17-A169-R..1/H.....
Ex protection type	Class I Division 1 Groups C and D Class II Division 1 Groups F and G Class III Division 1
Certification	UL file E226123

3.2.2 General Data

Ambient temperature	-20 °C to +40 °C	-4 °F to +104 °F
Dimension (length x width x height)		
MC 9090 ^{ex} -K	231x91x105 mm	9.1x3.6x4.1 inches
MC 9090 ^{ex} -G	231x91x193 mm	9.1x3.6x7.6 inches
Weight including battery (ATEX)		
MC 9090 ^{ex} -K	approx. 1320 g	approx. 46 oz
MC 9090 ^{ex} -G	approx. 1400 g	approx. 49 oz
Weight including battery (UL)		
MC 9090 ^{ex} -K	approx. 1040 g	approx. 40 oz
MC 9090 ^{ex} -G	approx. 1170 g	approx. 41 oz

3.2.3 Radio Data Transmission RFID/LF (External Module)

Nominal writing distance	approx. 5 cm	approx. 1.9 inches
Antenna	Integrated in the device as ferrite antenna or air coil antenna	
Frequency range	125/134 kHz	
Transmitting power	100 mW ± 2dB	

3.2.4 Standards supported by firmware

Firmware version Btrw-rw.V.1.40.frm	Firmware version Btrw-hdx.V.1.40.frm	Firmware version Btrw-ti.V.1.40.frm
HITAG S256	HDX - RO	EM 4450/4550
HITAG S 2 kbit	HDX (Multipage)	EM4xxx (UNIQUE)
HITAG 1	EM4xxx (UNIQUE)	FDX-B
HITAG 2	FDX-B	BDE
Q5	BDE	ISO 11784/5
ATA5567	ISO 117845	ISO Animal
EM4305	ISO Animal	

3.3 RFID/HF External Module/ATEX and UL

3.3.1 Explosion Protection

Types	17-A119-R..2/H.....
Ex protection type	Ⓔ II 2G Ex q [ib] IIC T4
Certification	PTB 05 ATEX 2055
Types	17-A129-R..2/H.....
Ex protection type	Class I Division 1 Groups C and D
Certification	UL file E226123
Types	17-A169-R..2/H.....
Ex protection type	Class I Division 1 Groups C and D Class II Division 1 Groups F and G Class III Division 1
Certification	UL file E226123

3.3.2 General Data

Ambient temperature	-20 °C to +40 °C	-4 °F to +104 °F
Dimension (length x width x height)		
MC 9090 ^{ex} -K	231x91x105 mm	9.1x3.6x4.1 inches
MC 9090 ^{ex} -G	231x91x193 mm	9.1x3.6x7.6 inches
Weight including battery (ATEX)		
MC 9090 ^{ex} -K	approx. 1320 g	approx. 46 oz
MC 9090 ^{ex} -G	approx. 1400 g	approx. 49 oz
Weight including battery (UL)		
MC 9090 ^{ex} -K	approx. 1040 g	approx. 40 oz
MC 9090 ^{ex} -G	approx. 1170 g	approx. 41 oz

3.3.3 Radio Data Transmission RFID/HF External Module

Supported standards	HF ISO 15693 HF ISO 14443	
Nominal reader calibration width HF ISO 15693 HF ISO 14443	approx. 7 to 12 cm approx. 2.75 to 4.72” approx. 1 to 6 cm approx. 0.4 to 2.36 inches (with tags in cheque card format)	
Nominal writing distance HF ISO 15693 HF ISO 14443	approx. 7 to 12 cm approx. 2.75 to 4.72” approx. 1 to 6 cm approx. 0.4 to 2.36 inches (with tags in cheque card format)	
Antenna	integrated	
Frequency range	13.56 MHz	
Transmitting power	250 mW ± 2 dB	

3.3.4 Standards Supported by Firmware

ISO14443-A compatible	ISO14443-B compatible	ISO15693 compatible
e.g. mifare, mifare Ultra Light, my-d proximity		e.g. I-Code SLI, Tag-IT HFI, my-d vicinity, STM LRI512
I-Code 1 (optional)		

3.4 RFID/UHF External Module/ATEX and UL

3.4.1 Explosion Protection

Types	17-A119-R ** 3/H ***** 17-A119-R ** 4/H *****
Ex protection type	II 2G Ex q [ib] IIC T4
Certification	PTB 05 ATEX 2055
Types	17-A129-R ** 3/H *****
Ex protection type	Class I Division 1 Groups C and D
Certification	UL file E226123
Types	17-A169-R ** 3/H *****
Ex protection type	Class I Division 1 Groups C and D Class II Division 1 Groups F and G Class III Division 1
Certification	UL file E226123

3.4.2 General Data

Ambient temperature	-20 °C to +40 °C	-4 °F to +104 °F
Dimension (length x width x height)		
MC 9090 ^{ex} -K	231x91x105 mm	9.1x3.6x4.1 inches
MC 9090 ^{ex} -G	231x91x193 mm	9.1x3.6x7.6 inches
Weight including battery (ATEX)		
MC 9090 ^{ex} -K	approx. 1320 g	approx. 46 oz
MC 9090 ^{ex} -G	approx. 1400 g	approx. 49 oz
Weight including battery (UL)		
MC 9090 ^{ex} -K	approx. 1040 g	approx. 40 oz
MC 9090 ^{ex} -G	approx. 1170 g	approx. 41 oz

3.4.3 Radio Data Transmission RFID/UHF External Module

Supported standards	EPC Class 1 Gen 2 tag
Nominal reading range	approx. 30 to 50 cm approx. 11.8 to 19.6"
Nominal writing distance	approx. 30 to 50 cm approx. 11.8 to 19.6"
Antenna	integrated
Frequency range	
Europe	865.6 to 867.5 MHz (EN302 208)
USA	902.0 to 928.0 MHz (FCC CFR 47 part 15.247)
Transmitting power	200 mW ± 2dB

3.5 RFID/UHF External Module + External Antenna

3.5.1 Explosion Protection

Types	17-A119-R ** 6/H ***** 17-A119-R ** 7/H *****
Ex protection type	 II 2G Ex q [ib] IIC T4
Certification	PTB 05 ATEX 2055
Types	17-A129-R ** 5/H *****
Ex protection type	Class I Division 1 Groups C and D
Certification	UL file E226123
Types	17-A169-R ** 5/H *****
Ex protection type	Class I Division 1 Groups C and D Class II Division 1 Groups F and G Class III Division 1
Certification	UL file E226123

3.5.2 General Data

Ambient temperature	-20 °C to +40 °C	-4 °F to +104 °F
Dimension (length x width x height)		
MC9090 ^{ex} -K	231x119x105 mm	9.1x4.7x4.1 inches
MC9090 ^{ex} -G	231x119x193 mm	9.1x4.7x7.6 inches
Weight including battery (ATEX)		
MC9090 ^{ex} -K	approx. 1370 g	approx. 47 oz
MC9090 ^{ex} -G	approx. 1450 g	approx. 50 oz
Weight including battery (UL)		
MC 9090 ^{ex} -K	approx. 1090 g	approx. 41 oz
MC 9090 ^{ex} -G	approx. 1220 g	approx. 42 oz

3.5.3 Radio Data Transmission RFID/UHF External Module + External 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	865.6 to 867.5 MHz (EN302 208)
USA	902.0 to 928.0 MHz (FCC CFR 47 Part 15.247)
Transmitting power	200 mW ± 2 dB

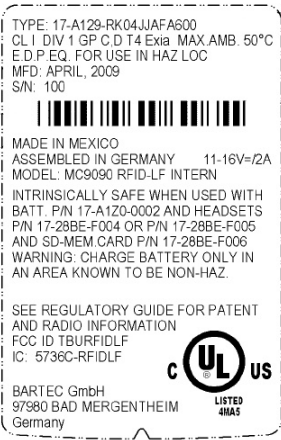
3.6 Information on Applied Directives, Standards, Marking and In-Process Inspections

3.6.1 Product Marking on Mobile Computer MC 9090^{ex} RFID (UL Class I, II, III Division 1)

MC 9090^{ex} RFID/LF internal



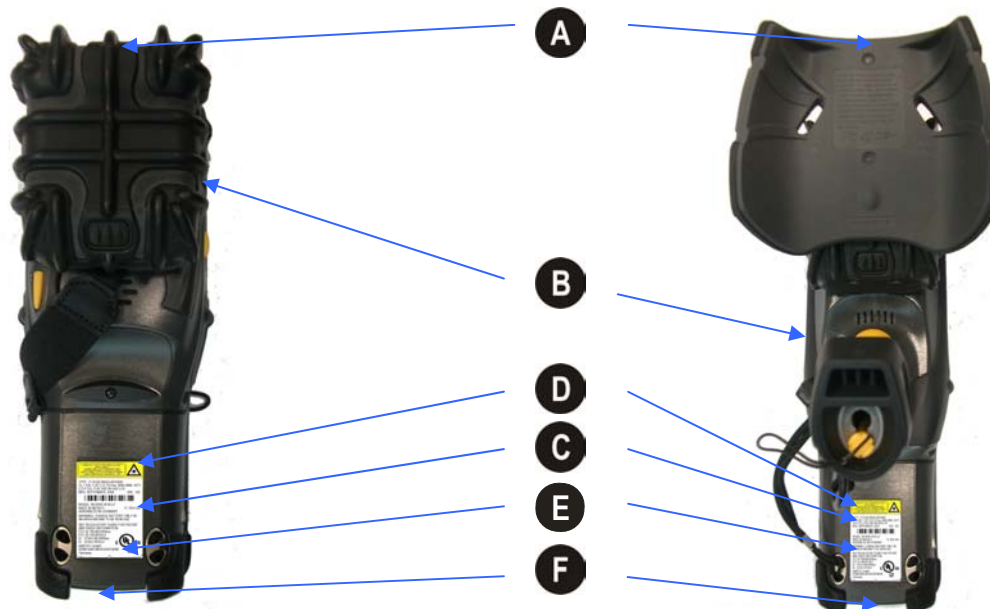
A Warning laser	No Integrated scan engine!				
B FCC instructions	THIS CLASS B DIGITAL APPARATUS COMPLIES WITH CANADIAN ICES-003. CET APPAREIL NUMÉRIQUE DE LA CLASSE B EST CONFORME À LA NORME NMB-003 DU CANADA. FC WARNING: SUBSTITUTION OF PARTS MAY IMPAIR INTRINSIC SAFETY. TO PREVENT IGNITION OF FLAMMABLE OR COMBUSTIBLE ATMOSPHERES, DISCONNECT POWER BEFORE SERVICING. READ, UNDERSTAND AND ADHERE TO THE OPERATIONAL MANUAL.				
C Ex protection type	see type label MC 9090 ^{ex} RFID/LF internal <table border="1"> <tr> <td>Type 17-A129...</td><td>Class I Division 1 Groups C and D</td></tr> <tr> <td>Type 17-A169...</td><td>Class I Division 1 Groups C and D Class II Division 1 Groups F and G Class III Division 1</td></tr> </table>	Type 17-A129...	Class I Division 1 Groups C and D	Type 17-A169...	Class I Division 1 Groups C and D Class II Division 1 Groups F and G Class III Division 1
Type 17-A129...	Class I Division 1 Groups C and D				
Type 17-A169...	Class I Division 1 Groups C and D Class II Division 1 Groups F and G Class III Division 1				
D Warning laser	No Integrated scan engine!				

E Type label	 TYPE: 17-A129-RK04JJFA600 CL I DIV 1 GP C D T4 Exia MAX.AMB. 50°C E.D.P.EQ. FOR USE IN HAZ LOC MFD: APRIL, 2009 S/N: 100 MADE IN MEXICO ASSEMBLED IN GERMANY 11-16V=2A MODEL: MC9090 RFID-LF INTERN INTRINSICALLY SAFE WHEN USED WITH BATT. P/N 17-A120-0002 AND HEADSETS P/N 17-28BE-F004 OR P/N 17-28BE-F005 AND SD-MEM.CARD P/N 17-28BE-F006 WARNING: CHARGE BATTERY ONLY IN AN AREA KNOWN TO BE NON-HAZ. SEE REGULATORY GUIDE FOR PATENT AND RADIO INFORMATION FCC ID TBUHFIDLF IC: 5736C-RFIDLF BARTEC GmbH 97980 BAD MERGENTHEIM Germany UL LISTED 4845
F Labels in the battery compartment	Licence sticker for Windows Mobile™ 5.0 Premium operating system  Label contains details on the Motorola device before it was modified by BARTEC GmbH. - CE mark and notified body used by Motorola - Manufacturer Motorola (formerly Symbol Technologies Incorporation) - Type number (part) - Serial number ((S) S/N) Important: You will need to quote the type number and serial number when making enquiries directly to the Technical Support department at Motorola.  Symbol Tech INC., N.Y. 11742 Part: MC9090-KU0HJFA6WR (S)S/N: 7064000500869

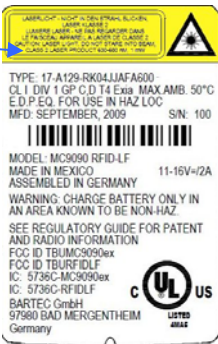
3.6.2 Product Marking on Mobile Computer MC 9090^{ex} RFID (UL Class I, II, III Division 1)

MC 9090^{ex} RFID/LF/HF/UHF external

MC 9090^{ex} RFID/LF/HF/UHF external



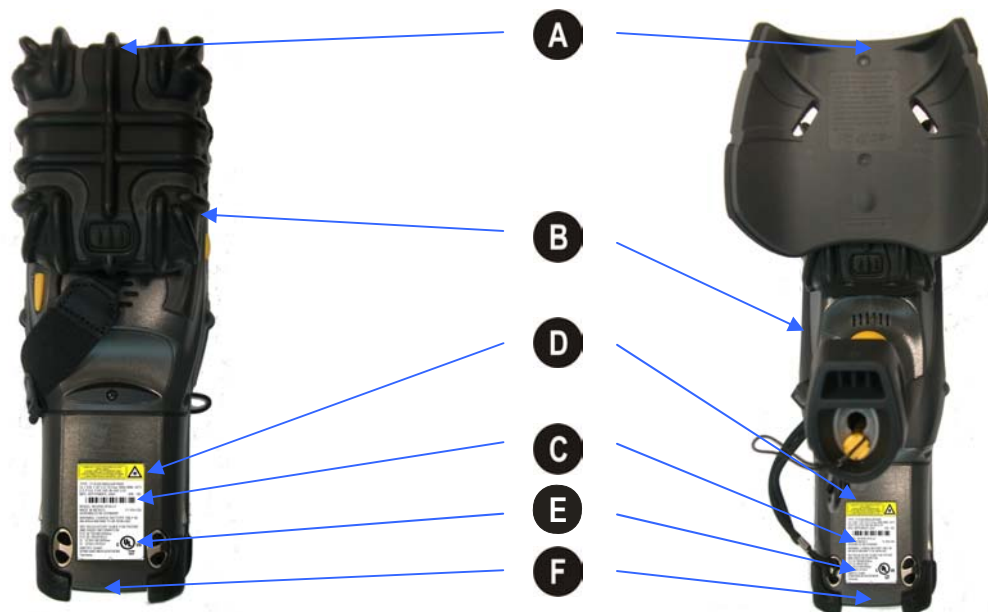
A Warning laser	CAUTION - CLASS 3R LASER LIGHT WHEN OPEN. AVOID DIRECT EYE EXPOSURE. ATTENTION - LUMIÈRE LASER DE CLASSE 3R, EN CAS D'OUVERTURE. EXPOSITION DANGEREUSE AU FAISCEAU. VORSICHT - LASERLICHT KLASSE 3R, WENN ABDECKUNG GEÖFFNET. DIREKTE BESTRAHLUNG DER AUGEN VERMEIDEN.				
B Laser compliance and FCC instructions	MC 9090^{ex} RFID/LF/HF/UHF external COMPLIES WITH: 21CFR1040.10 AND 1040.11 EXCEPT FOR DEVIATIONS PURSUANT TO LASER NOTICE No. 50 DATED JULY 26, 2001 AND IEC 60825-1:1993 + A2:2001 EN62425-1:1994 + A1:1996 + A2:2001 INTRINSICALLY SAFE WHEN USED WITH BATT. PIN 17-A120-0002 AND HEADSETS PIN 17-28BE-F004 OR PIN 17-28BE-F005 AND SD-MEM CARD PIN 17-28BE-F006 THIS CLASS B DIGITAL APPARATUS COMPLIES WITH CANADIAN ICES-003 CET APPAREIL NUMÉRIQUE DE LA CLASSE B EST CONFORME À LA NORME NMB-003 DU CANADA WARNING: SUBSTITUTION OF PARTS MAY IMPAIR INTRINSIC SAFETY. TO PREVENT IGNITION OF FLAMMABLE OR COMBUSTIBLE ATMOSPHERES, DISCONNECT POWER BEFORE SERVICING. READ UNDERSTAND AND ADHERE TO THE OPERATIONAL MANUAL. AVOID EXPOSURE. LASER LIGHT IS EMITTED FROM THIS APERTURE.				
C Ex protection type	see type label MC 9090^{ex} RFID/LF/HF/UHF external <table border="0"> <tr> <td>Type 17-A129...</td> <td>Class I Division 1 Groups C and D</td> </tr> <tr> <td>Type 17-A169...</td> <td>Class I Division 1 Groups C and D Class II Division 1 Groups F and G Class III Division 1</td> </tr> </table>	Type 17-A129...	Class I Division 1 Groups C and D	Type 17-A169...	Class I Division 1 Groups C and D Class II Division 1 Groups F and G Class III Division 1
Type 17-A129...	Class I Division 1 Groups C and D				
Type 17-A169...	Class I Division 1 Groups C and D Class II Division 1 Groups F and G Class III Division 1				

D Warning laser	MC 9090^{ex} RFID/LF/HF/UHF external 
E Type label	MC 9090^{ex} RFID/LF/HF/UHF external 
F Labels in the battery compartment	Licence sticker for operating system Windows mobile™ 5.0 Premium  Label contains details on the Motorola device before it was modified by BARTEC GmbH. - CE mark and Notified Body used by Motorola - Manufacturer Motorola (formerly Symbol Technologies Incorporation) - Type number (part) - Serial number ((S) S/N) Important: You will need to quote the type number and serial number when making enquiries directly to the Technical Support department at Motorola. MC 9090^{ex} RFID/LF/HF/UHF external and MC 9090^{ex} RFID/LF internal 

3.6.3 Product Marking on Mobile Computer MC 9090^{ex} RFID (ATEX Zone 1)

MC 9090^{ex} RFID/LF/HF/UHF external

MC 9090^{ex} RFID/LF/HF/UHF external



A Warning laser	CAUTION - CLASS 3R LASER LIGHT WHEN OPEN. AVOID DIRECT EYE EXPOSURE. ATTENTION - LUMIÈRE LASER DE CLASSE 3R, EN CAS D'OUVERTURE. EXPOSITION DANGEREUSE AU FAISCEAU. VORSICHT - LASERLICHT KLASSE 3R, WENN ABDECKUNG GEÖFFNET. DIREKTE BESTRAHLUNG DER AUGEN VERMEIDEN.
B Laser compliance and FCC instructions	MC 9090^{ex} RFID/LF/HF/UHF external COMPLIES WITH 21CFR1040.10 AND 1040.11 EXCEPT FOR DEVIATIONS PURSUANT TO LASER NOTICE No. 50, DATED JULY 26, 2001, AND IEC 60825-1:1993 + A2:2001, EN60825-1:1994 + A1:1996 + A2:2001. CE 0044 0168 
C CE and Ex protection type	see type label MC 9090^{ex} RFID/LF/HF/UHF external CE  II 2G Ex q [ib] IIC T4

Technical data subject to change without notice.
Issue 08/2010

4 Commissioning

4.1 MC 9090^{ex} Manual and Software for Windows Mobile from Motorola

Link:

<http://support.symbol.com/support/product/manuals.do>

Mobile Computers

MC9090 WM

List of the available manuals and software downloads for the standard Motorola versions

4.2 MC 9090^{ex} RFID Documentation from BARTEC

Use the following link to access the available documentation and downloads.
If you have any further questions, please contact us directly at info@bartec.de.

Left German homepage:

<http://www.bartec.de/>

Link to English homepage:

http://www.bartec.de/index_eng.htm

4.3 MC 9090^{ex} RFID Software

The software has been programmed as a demonstration program to test the devices.
The demonstration software has been written into Open Source so that every user with the development tools can view and use the structure.

The DLL files and the demonstration program are available on a password-protected page for download on request.

The password can be inquired from BARTEC at info@bartec.de.

5 Additional Information

5.1 Order Numbers MC 9090^{ex} (ATEX Zone 1)

17 - A 1 1 9 - R		/ H C		F A 6	
Version		G K			
MC 9090 ^{ex} -G Gun					
MC 9090 ^{ex} -K Brick					
Barcode scanning		J A K W			
SE1524 1D-Long Range Scan Engine (only Gun)					
SE950 1D-Standard Range Scan Engine (only Brick)					
SE4400 1D-/2D-Imager Engine					
1D-/2D-Imager Engine DPM Engine (only Brick)					
RFID		1 2 3 4 6 7			
LF external module					
HF external module					
UHF (US) external module					
UHF (EU) external module					
UHF (US) external module + external antenna					
UHF (EU) external module + external antenna					
Keyboard				A L F E G H J	
28 keys, numeric					
33 keys, numeric					
43 keys, alphanumeric					
53 keys, alphanumeric					
53 keys, alphanumeric with layout for VT emulation					
53 keys, alphanumeric with layout for 3270 emulation					
53 keys, alphanumeric with layout for 5250 emulation					
SD cards					
without SD card				0 0	
with 512 MB SD card				0 1	
with 1 GB SD card				0 2	
with 2 GB SD card				0 3	

Example: MC 9090^{ex} RFID/HF with 2-D imager engine and 53 keys without SD card.
Type 17-A119-RKK2/HCEFA600

5.2 Order Numbers MC 9090^{ex} (UL Class I Division 1)

17 - A 1 2 9 - R					/	H	C		F	A	6		
Version		G											
MC 9090 ^{ex} -G Gun		K											
MC 9090 ^{ex} -K Brick													
Barcode scanning													
none (only with LF internal)													
SE1524 1D-Long Range Scan Engine (only Gun)													
SE950 1D-Standard Range Scan Engine (only Brick)													
SE4400 1D-/2D-Imager Engine													
1D-/2D-Imager Engine DPM Engine (only Brick)													
RFID													
LF external module													
HF external module													
UHF (US) external module													
LF internal module (no scan engine)													
UHF (US) external module + external antenna													
Keyboard													
28 keys, numeric													
33 keys, numeric													
43 keys, alphanumeric													
53 keys, alphanumeric													
53 keys, alphanumeric with layout for VT emulation													
53 keys, alphanumeric with layout for 3270 emulation													
53 keys, alphanumeric with layout for 5250 emulation													
SD cards													
without SD card													
with 512 MB SD card													
with 1 GB SD card													
with 2 GB SD card													

0

J

A

K

W

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3

Example:

MC 9090^{ex} K RFID/LF without scan engine, internal RFID/LF module, 28 keys and without SD card.

Type 17-A129-RK04/HCAFA600

5.3 Order Numbers MC 9090^{ex} (UL Class I, II, III Division 1)

17 - A 1 6 9 - R					/	H	C		F	A	6		
Version		G											
MC 9090 ^{ex} -G Gun		K											
MC 9090 ^{ex} -K Brick													
Barcode scanning													
none (only with LF internal)													
SE1524 1D-Long Range Scan Engine (only Gun)													
SE950 1D-Standard Range Scan Engine (only Brick)													
SE4400 1D-/2D-Imager Engine													
1D-/2D-Imager Engine DPM Engine (only Brick)													
RFID													
LF external module													
HF external module													
UHF (US) external module													
LF internal module (no scan engine)													
UHF (US) external module + external antenna													
Keyboard													
28 keys, numeric													
33 keys, numeric													
43 keys, alphanumeric													
53 keys, alphanumeric													
53 keys, alphanumeric with layout for VT emulation													
53 keys, alphanumeric with layout for 3270 emulation													
53 keys, alphanumeric with layout for 5250 emulation													
SD cards													
without SD card													
with 512 MB SD card													
with 1 GB SD card													
with 2 GB SD card													

0

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3

Example:

MC 9090^{ex} G RFID/UHF with long-range scan engine, external RFID/UHF module, 53 keys, without SD card.

Type 17-A169-RGJ3/HCEFA600

Erklärung der Konformität
Declaration of Conformity
Attestation de conformité

Nº 11-A119-7C0006

BARTEC

BARTEC GmbH
Max-Eyth-Straße 16
97980 Bad Mergentheim
Germany

Wir

We

Nous

BARTEC GmbH,

erklären in alleiniger Ver-
antwortung, dass das
Produkt

declare under our sole
responsibility that the
product

attestons sous notre seule
responsabilité que le pro-
duit



MC9090^{ex}
externes RFID

MC9090^{ex}
external RFID

MC9090^{ex}
externes RFID

Typenbezeichnung : 17-A119-RGJ* / H*****
17-A119-RKA* / H*****

auf das sich diese Erklä-
rung bezieht den Anforde-
rungen der folgenden
Richtlinien (RL)
entspricht

to which this declaration
relates is in accordance
with the provision of the
following directives (D)

se référant à cette attesta-
tion correspond aux dispo-
sitions des
directives (D) suivantes

ATEX-Richtlinie
94/9/EG
EMV-Richtlinie
2004/108/EG
RoHS-Richtlinie
2002/95/EG
Funk-Richtlinie
1999/5/EG

ATEX-Directive
94/9/EC
EMC-Directive
2004/108/EC
RoHS-Directive
2002/95/EC
Radio equipment-
Directive
1999/5/EC

ATEX-Directive
94/9/CE
CEM-Directive
2004/108/CE.
RoHS-Directive
2002/95/CE
Radio equipment-
Directive
1999/5/CE

und mit folgenden Normen
oder normativen Doku-
menten übereinstimmt

and is in conformity with
the following standards or
other normative docu-
ments

et est conforme aux
normes ou documents
normatifs ci-dessous

EN 60079-0: 2006;
EN 60079-5 : 2007
EN 60079-11: 2007;
EN 300 328 V1.6.1: 2004-11;
EN 301 893 V1.2.3: 2003-08;
EN 301 489-1 V1.6.1: 2005-09;
EN 301 489-17 V1.2.1: 2002-08;
EN 61000-3-2: 2006; +A1 :2009
+A2 :2009
EN 61000-3-3: 2008 ;
EN 61000-4-2: 1995, +A1: 1998, +A2:
2001;

EN 61000-4-3: 2006 +A1 :2008 ;
EN 55022: 1998, +A1: 2000 +A2: 2003;
EN 55024: 1998; +A1 : 2001 +A2 : 2003 ;
EN 60950-1: 2001;
EN 60825-1: 1994 +A1: 2002 + A2: 2001;
EN 301 489-1 1.8.1 :2008
EN 301 489-3 1.4.1 :2008
EN 300 330-1 1.3.1 :2006
EN 301 330-2 1.3.1 :2006
EN 60529 : 1991 +A1 : 2000

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Germany

Kennzeichnung	Marking	Marquage
II 2G Ex q [ib] IIC T4		
Verfahren der EG- Baumusterprüfung / Benannte Stelle	Procedure of EC- Type Examination / Notified Body	Procédure d'examen CE de type / Organisme Notifié
PTB 05 ATEX 2055		
0102 PTB, Bundesallee 100, 38116 Braunschweig, D		
CE 0044		

Bad Mergentheim, den 30.07.2010

ppa. Ewald Warmuth
Geschäftsleitung / General Manager

Erklärung der Konformität
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MC9090^{ex}
externes RFID

MC9090^{ex}
external RFID

MC9090^{ex}
externes RFID

Typenbezeichnung : 17-A119-RKK* / H***
17-A119-RKW* / H*****
17-A119-R**6 / H*****
17-A119-R**7 / H*******

auf das sich diese Erklä-
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Funk-Richtlinie
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94/9/EC
EMC-Directive
2004/108/EC
RoHS-Directive
2002/95/EC
Radio equipment-
Directive
1999/5/EC**

**ATEX-Directive
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CEM-Directive
2004/108/CE.
RoHS-Directive
2002/95/CE
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EN 61000-3-3: 2008 ;
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EN 55022: 1998, +A1: 2000 +A2: 2003;
EN 55024: 1998; +A1 : 2001 +A2 : 2003 ;
EN 60950-1: 2001;
EN 60825-1: 1994 +A1: 2002 + A2: 2001;
EN 301 489-1 1.8.1 :2008
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