BARTEC

Mobile Computing

User Manual

Mobile Computer MC 95xx^{ex}-NI

Type B7-A29.-..../........

BARTEC

User Manual

Mobile Computer

MC 95xxᵉˣ-NI

Type B7-A29.-…./…….

ATEX / IECEx Zone 2 and Zone 22

UL Class I, II, III Division 2

Document No.: B1-A290-7D0002
Status: 29 April 2015

Reservation: Technical data subject to change without notice. Changes, errors and misprints may not be used as a basis for any claim for damages.

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1. Basic Safety Instructions

1.1 Notes on this manual

Please read carefully before commissioning the devices.

The user manual is a constituent part of the product. It must be kept in the direct vicinity of the device and accessible at all times to installation, operating and maintenance personnel.

It contains important notes, safety instructions and test certificates which are necessary for perfect functioning when the devices are being operated and handled.

The user manual is written for all people who carry out handling, commissioning, operation and maintenance work on the product, whereby the directives and standards applicable to areas with a gas or dust atmosphere (99/92/EC, EN 60079-17, EN 60079-19, IEC 60079-17, IEC 60079-19) must be observed when doing such work.

Familiarity with and strict adherence to the safety instructions and warnings in this manual are essential for safe handling and commissioning. Careful handling and consistent observation of these instructions can prevent accidents, personal injuries and damage to property.

The illustrations in these operating instructions serve to make the information and descriptions more clear. They are not necessarily true to scale and may deviate slightly from the actual construction of the device.

Safety instructions and warnings are specially highlighted in this manual and marked by symbols.

⚠ DANGER

DANGER indicates a hazardous situation which, if not avoided, will result in death or serious injury.

⚠ WARNING

WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.

⚠ CAUTION

CAUTION indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

ATTENTION

ATTENTION identifies a potentially damaging situation which, if not avoided, could damage the equipment or something in its environment.

ⓘ Important instructions and information on effective, economical and environmentally compatible handling.

1.1.1 Languages

The original user manual is written in English. All other available languages are translations of the original user manual.

The user manual is available in English. If you require any other languages, please ask BARTEC or request them when placing the order.

1.1.2 Changes to the document

BARTEC reserves the right to alter the contents of this document without notice. No guarantee is given for the correctness of the information. In case of doubt, the German safety instructions shall apply because it is not possible to rule out errors in translation or in printing. In the event of a legal dispute, the "General Terms and Conditions" of the BARTEC group shall apply in addition.

The respective up-to-date versions of data sheets, manuals, certificates, EC Declaration of Conformity may be downloaded at **www.bartec-group.com** under products and solutions in the area "Automatic Technology" or ordered directly from BARTEC GmbH.

1.2 Handling the Product

The product described in these user manual has been tested and left the factory in perfect condition as regards meeting safety requirements. To maintain this condition and ensure that this product operates perfectly and safely, it may be used only in the manner described by the manufacturer. Appropriate transportation, suitable storage and careful operation are also essential for the perfect and safe operation of this product. The Mobile Computer must be installed properly and securely if it is to work perfectly and correctly.

The safe and perfect mounting of the Mobile Computer is a precondition for faultless and correct operation.

1.3 Use in Accordance with the Intended Purpose

1.3.1 Exclusive Purpose

The Mobile Computer MC 95xxᵉˣ-NI is a handheld piece of electrical equipment. It serves the purpose of the mobile recording, processing and radio transmission of data within potentially explosive atmospheres.

It is used exclusively in combination with devices which comply with the requirements placed on the overvoltage category I.

The admissible operating data of the device used must be considered.

1.3.2 Improper Use

Any other use is not in accordance with the intended purpose and can cause damage and accidents. The manufacturer will not be liable for any use beyond that of its exclusive intended purpose.

1.4 Owner's/Managing Operator's Obligations

The owner/managing operator undertakes to restrict permission to work with the Mobile Computers to people who:

▶ are familiar with the basic regulations on safety and accident prevention and have been instructed in the use of the Mobile Computer;

▶ have read and understood the documentation, the chapter on safety and the warnings.

The owner/managing operator must check that the safety regulations and accident prevention rules valid for the respective application are being observed.

1.5 Safety Instructions

1.5.1 General Safety Instructions

▶ Take the device out of the hazardous area before wiping it with a dry cloth or cleaning it!

▶ Do not open devices in a hazardous area.

▶ The general statutory regulations or directives relating to safety at work, accident prevention and environmental protection legislation must be observed, e.g. the German industrial health and safety ordinance (BetrSichV) or the applicable national ordinances.

▶ In view of the risk of dangerous electrostatic charging, wear appropriate clothing and footwear.

▶ Avoid the influence of heat that is higher or lower than the specified temperature range.

▶ Protect the device from external influences! Do not expose the device to any caustic/aggressive liquids, vapours or mist! In the event of malfunctioning or damage to the enclosure, take the device out of the potentially explosive area immediately and bring it to a safe place.

1.6 Safety Instructions for Operation

1.6.1 Upkeep

For electrical systems the relevant installation and operating regulations must be complied with (e.g. Directive 99/92/EC, Directive 94/9/EC and the national applicable ordinances EN 60079-14 and the DIN VDE 0100 series)!

The disposal of this equipment must comply with the national regulations on the disposal of waste.

1.6.2 Maintenance

Regular servicing is not necessary if the equipment is operated correctly in accordance with the installation instructions and environmental conditions. In this context, please refer to Chapter "Maintenance, Inspection, Repair".

1.6.3 Inspection

Under IEC 60079-19 and EN 60079-17, the owner/managing operator of electrical installations in hazardous areas is obliged to have these installations checked by a qualified electrician to ensure that they are in a proper condition.

1.6.4 Repairs

Repairs on explosion-protected operating equipment may be done only by authorised persons working in accordance with the latest developments in technology and using original spare parts. The applicable regulations must be observed.

1.6.5 Commissioning

Before commissioning, check that all components and documents are there.

1.7 Ex Protection Type, Certification and Standards

Markings specifying Ex protection and certification are put on the device. For Ex protection markings, see Chapter 3 "Technical Data".

The Mobile Computers conform to Directive 94/9/EC for devices and protective systems for use to their intended purpose in potentially explosive areas (ATEX Directive). For the standards conformed to, see Chapter 3 "Technical Data".

1.8 Warranty

> ⚠ **WARNING**
>
> **It is not permissible to make any modifications or implement any conversions unless the manufacturer gives his approval in writing.**
>
> If components other than those specified are used, protection against explosion can no longer be assured. It cannot be guaranteed that parts procured from other suppliers have been designed and produced in conformance to safety requirements and with the necessary stress tolerance.
>
> ▶ Contact the manufacturer to obtain approval before making any modifications or conversions. Use only original spare parts and original expendable parts.

ⓘ The manufacturer grants a complete warranty only and exclusively for the spare parts ordered from him, the manufacturer.

As a fundamental rule, our "General Conditions of Sale and Delivery" apply. These are made available to the owner/managing operator at the latest on formation of a contract. Guarantee and liability claims for personal injury and damage to property are excluded if they are due to one or more of the following reasons:

Unintended use of the Mobile Computers:

−   Incorrect handling, commissioning, operation and servicing.

−   Failure to observe the information in the User Manual with respect to transport, storage, assembly, handling, commissioning, operation and service.

−   Independent structural changes.

−   Faulty monitoring of parts subject to wear and tear.

−   Incorrectly performed repairs.

−   Cases of disaster through the impact of foreign bodies and force majeure.

We grant a warranty period of one year starting from the date of delivery from the Bad Mergentheim factory on the Mobile Computers and their accessories (exception: battery 6 months). This warranty covers all parts of the delivery and shall be restricted to the free replacement or repair of the defective parts in our Bad Mergentheim factory. For this purpose, any packaging supplied must be kept where possible. In the case of warranty, the goods must be returned to us after written agreement. There shall be no claim to repair at the sight of erection.

The versions, components, monitors and windows shown in this User Manual are merely examples and may deviate from the actual display.

The information contained herein refers to the explosion-protected version of series MC 95xx^ex-NI.

This User Manual contains all important information on the subject of explosion protection. The original user manuals and product information of ZEBRA with information on handling and commissioning are also available. In the case of overlaps, the information in this User Manual shall take priority and shall supersede the information from ZEBRA.

1.9 Co-applicable documents – Set of documents

BARTEC

– **User manual for the MC 95xxex-NI mobile computer series**
(part no. B1-A290-7D0001). This user manual describes the use of the explosion protected version of the MC 95xxᵉˣ-NI mobile computer series.

– **Technical data sheet** for the explosion protected version of the MC 95xxᵉˣ-NI mobile computer series - This Technical Data Sheet describes the most important ex technical and general technical data.

– The current version of this user manual is available upon enquiry.

ZEBRA

The documentation set for the MC9500-K provides information corresponding with the respective user requirements and comprises:

– **MC9500-K Quick Start Guide** (Part no. 72-118504-xx.)
This user manual describes the commissioning of the mobile computer MC9500-K.

– **MC95XX Series Regulatory Guide** (Part no. 72-118502-xx)

– **Mobility Services Platform (MSP) Using MSP in Wide Area Networks (Carriers)**
(Part no. 72E-100158-xx)

– **Wireless Fusion Enterprise Mobility Suite User Guide for Version 3.00**
(Part no. 72E-122495-xx)

– **MC9500-K User Guide** (Part no. 72E-118501-xx) - This user manual describes the use of the MC9500-K mobile computer series.

– **MC9500-K Integrator Guide** (Part no. 72E-118503-xx). This user manual describes the setup of the MC9500-K mobile computer, including accessories.

– **Microsoft® Applications for Windows Mobile® 6 User Guide**
(Part no. 72E-108299-xx). This user guide describes the use of Microsoft applications.

– **Enterprise Mobility Application Guide** (Part no. 72E-68901-xx)
This user guide describes the use of example applications developed with Enterprise Mobility.

– **EMDK Help** file **(Enterprise Mobility Developer Kit) -** This Help file comprises API information about writing applications, available under:

https://www.zebra.com/us/en/support-downloads.html

– **Latest Active Sync-Software,** available under: http://www.microsoft.com.

– The current version of the ZEBRA documentation is available under:

https://www.zebra.com/us/en/support-downloads.html

For Software Installation and Adjustment Possibilities refer to the manual, available under:
https://www.zebra.com/us/en/support-downloads.html
under: Support Portal / Select your product to find manuals.

1.10   Configuration

This user manual refers to the following configurations:

Confi-guration	Wireless		Display	Memory	Data acquisition option	OS	Key-pad
MC9590ex-NI	WLAN: 802.11 a/b/g WPAN: Bluetooth-Version 2.1 with EDR GPS: SiRF III		3.7"-VGA Colour display	256 MB RAM/1 GB Flash memory	1D Laser scanner	Windows Mobile® 6.5 Classic	Keypads: See below
MC9596ex-NI	WLAN: 802.11 a/b/g WPAN: Bluetooth-Version 2.1 with EDR WWAN: HSDPA GPS: SiRF III				1D /2D Imager 1D Laser scanner and camera or	Windows Mobile® 6.5 Professional	
MC9598ex-NI	WLAN: 802.11a/b/g WPAN: Bluetooth-Version 2.1 with EDR WWAN: EvDO Rev. A GPS: SiRF III				1D /2D Imager and camera	Windows Mobile® 6.5 Professional	

Keypad

The following keypads are available:

– Alpha Primary

– Telephony Numeric

– Calculator Numeric

– Alpha Numeric

You can find specific information about the keypads under Technical Data or in the ZEBRA documentation.

2. Product Description

2.1 Definition

The **MC 95xxᵉˣ-NI** is a 3.5G Worldwide Enterprise Digital Assistant (EDA) device and it has been specially modified by BARTEC for use in the hazardous areas:

− **ATEX/IECEx Zone 2** and **Zone 22** and

− **Class I, II, III Division 2**

This means that even in the hazardous area the user can avail of the extensive communication options that are already standard in other areas.

Its ergonomic design and easy operation make it an ideal support for fast data availability in enterprise processes. A keyboard is available in different versions for manual data capture.

The integrated 1D or 1D/2D scan engine for capturing bar codes and optionally a 3-megapixels camera is available as another data capture option. The ergonomically mounted scan triggers on the MC 95xxᵉˣ-NI allow data to be captured easily in one-hand operation.

Several technologies are available for data communication with other systems and company divisions.

− Wireless 3.5G WWAN (WWAN)

− Wireless LAN (WLAN),

− Wireless PAN (WPAN) (Bluetooth)

− IrDA connection

These modules, which are integrated in the device, allow seamless transmission of voice and data with easy integration into the company's network.

Other advantages in its use are the rugged construction, easy-to-read 3.7" VGA colour display with touch technology and high-performance lithium ion battery.

Fast process execution is ensured by the Intel PXA320@ processor with 806 MHz, which is integrated in the MC 95xxᵉˣ-NI, and an easy development of applications is facilitated by the Microsoft® Windows Mobile® 6.5 operating system in conjunction with the Enterprise Mobility Developer Kits (EMDK) from ZEBRA.

256 MB RAM and 1 GB flash drive integrated in the device are available for storing user-defined applications and data. For larger applications and volumes of data, BARTEC offers SD memory cards.

2.2 Operation

The Enterprise Digital Assistant MC 95xx^{ex}-NI is a hand-guided piece of electric equipment. It serves the mobile capture, processing and wireless transmission of data in hazardous areas.

It is used exclusively in combination with operating devices which satisfy the requirements for overvoltage category I.

The **MC 95xx^{ex}-NI, type B7-A29.-…./…….. series** has been modified for use in the hazardous area of:

– ATEX Zone 2 and Zone 22 / IECEx Zone 2 and Zone 22

– UL Class I   Division 2 Groups A, B, C and D

– UL Class II Division 2, Groups F and G

– UL Class III

– Non hazardous area

The **MC 95xx^{ex}-NI** may not be used in locations of:

– ATEX Zone 0 / IECEx Zone 0

– ATEX Zone 1 and Zone 21 / IECEx Zone 1 and Zone 21

– UL Class I, II Division 1

– UL Class I, II Division 1

– UL Class II Division 2, Groups E

3.   Technical Data

3.1   Explosion protection

ATEX Zone 2 and Zone 22	
Type	B7-A293-…./……..
Ex protection	⟨Ɛx⟩ II 3G Ex ic IIC T6 Gc ⟨Ɛx⟩ II 3D Ex ic IIIC T90 °C Dc
Ambient temperature	-20 °C ≤ Ta ≤ +50 °C
Temperature Code	T6
Certificate	EPS 13 ATEX 1 588 X
IECEx Zone 2 and Zone 22	
Type	B7-A293-…./……..
Ex protection	Ex ic IIC T6 Gc Ex ic IIIC T90 °C Dc
Ambient temperature	-20 °C ≤ Ta ≤ +50 °C
Temperature Code	T6
Certificate	IECEx EPS 13.0028X
UL Division 2	
Type	B7-A292-…./……..
Ex protection	Class I Division 2 Groups A, B, C and D Class II Division 2 Groups F and G Class III
Ambient temperature	-20 °C ≤ Ta ≤ +50 °C
Temperature Code	T6
Certificate	UL File E321557
Further approvals	
Brazil	UL-BR 13.0807X
South Korea	KTL 14-KB4BO-0261X

3.2   Features

3.2.1   Performance features

Processor	Marvel PXA320@ processor with 806 MHz
Memory	256 MB RAM / 1GB Flash
Expansion slot	Micro SD slot / supports up to 16 GB
Optional available extension with Micro SD card	1 GB Order no. 17-C1Z0-0007 2 GB Order no. 17-C1Z0-0008
Operating system	Windows Mobile 6.5

3.2.2   Physical features

Dimensions (height x width x depth)	approx. 23.36 cm x 8.89 cm x 5.08 cm approx. 9.2 inch x 3.5 inch x 2.0 inch
Weight including battery	approx. 623 g approx. 22 oz depending on the version and configuration
Display	Transflective 3.7 inch colour TFT-LCD display LED backlight, 65K colors, 640 x 480 pixels
Touchscreen	Glass analog resistive touchscreen
Keyboard variants	Alpha Primary, Alpha Numeric, Calculator Numeric, Telephony Numeric
Audio	VoWWAN, VoWLAN, Team Express compliant, rugged audio connector, high quality speakerphone, headset (wired or Bluetooth) and handset and speaker phone modes
Network connections	High-speed USB client, full-speed USB host, Ethernet (via cradle), Bluetooth
Interfaces	RS232 USB 2..0 Client / USB 1.1 host

3.2.3 User environment

Ambient temperature	-20 °C to +50 °C -4 °F to 122 °F
Ambient temperature when charging	0 °C to +40 °C 32 °F to 104 °F
Storage temperature (without battery)	-40 °C to +70 °C -40 °F to 158 °F outside the hazardous area
Air humidity	5% to 95% (non-condensing)
Protection class (EN 60529)	IP 64

3.2.4 Application development

EMDK (Operation Mobility Developer kit) is available on the ZEBRA Website under SUPPORT & DOWNLOADS.	
Available for	– C – Java – .Net
More tools are available from ZEBRA for the devices, e.g.	**Rem Capture** – for processing registry files. **Application Launcher** – for dividing applications into categories and access regulation to the individual applications or operating system. **Data Wedge** – allows data reading by applications that do not support any scanner. **App Center** – is an end-user application access control engine that restricts activity to a set of authorized applications on mobile devices.

3.2.5 Voice and data transmission Wireless LAN

WLAN (integrated radio module)	
Wireless standard	Tri Mode IEEE 802.11a/b/g
Data rate	IEEE802.11a: up to 54 Mbit/sec. IEEE802.11b: up to 11 Mbit/sec. IEEE802.11g: up to 54 Mbit/sec.
Frequency range (country-dependent)	IEEE802.11a: 5 GHz IEEE802.11b: 2.4 GHz IEEE802.11g: 2.4 GHz
Radio channels	Channel 1 – 13 (2412 MHz - 2472 MHz) Channel 14 (2484 MHz) Japan only
Safety	TKIP, AES, WPA (Personal Enterprise), WPA2 (Personal or 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), CCXv4 certified, support for IPv6, FIPS140-2 certified
Spreading procedure	Direct Sequence Spread Spectrum (DSSS) and Orthogonal Frequency Division Multiplexing (OFDM)
Voice communication	Voice-over-IP ready (with P2P, PBX, PTT clients), WI-FiTM certified, IEEE 802.11 a/b/g Direct Sequence Wireless LAN, WI-FI Multimedia (WMM), ZEBRA Voice Quality manager (VQM)
Antenna	integrated in the device

3.2.6 Voice and data transmission Wireless WAN

WWAN radio module	
GSM	GPRS/HSDPA (850, 900, 1800, 1900 and 2100 MHz)
CDMA	EVDO Rev. A (850 and 1900 MHz) (Verizon or Spirit)
Antenna	Integrated in the device

3.2.7 Voice and data transmission Wireless PAN

Bluetooth	Class II, Version 2.1 with EDR
Maximum data rate	Up to 2.1 Mbit/s
Antenna	Integrated in the device

3.2.8 Options for Data Capture

Four possible configurations	– SE950 1D Standard Range Scan Engine
	– Blockbuster 1D/2D Imager engine
	– SE950 1D Standard Range Scan Engine and camera
	– Blockbuster 1D/2D Imager engine and camera

3.2.9 Colour camera

Resolution	3.0 megapixel
Illumination	User controllable flash
Objective	Autofocus

3.2.10 SE950 1D Standard Range Scan Engine

Range	approx. 10 cm to 120 cm approx. 3.9 inch to 47 inch
Resolution	4 mil minimum element width
Roll	± 35° from the vertical
Pitch angle	± 65° from normal
Skew tolerance	± 50° from normal
Ambient light	107,640 lux
Scan rate	104 (± 12) scans/sec. (bi-directional)
Scan angle	47° ± 3° standard 35° ± 3° reduces
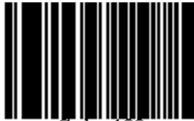
3.2.11 SE4500 1D/2D Imager Engine

Reader range	approx. 6 cm to 50 cm approx. 2.3 inch to 19 inch
Resolution	752 x 480 pixels HxV (grey tone)
Roll	360°
Pitch angle	± 60° from normal
Skew tolerance	± 60° from normal
Ambient light	Absolute darkness to 96,900 lux
Aiming element (VLD)	655 Nm ± 10 Nm
Illumination element (LED)	625 Nm ± 5 Nm
Field of view	Horizontal 40° Vertical 25°

3.2.12 Decodable barcode types

Laser Decode Capability MC 95xx^ex-NI with SE950 1D Standard Range Scan Engine		
1D code		
Code 39	Code 128	Code 93
Codabar	Code 11	Discrete 2 of 5
Interleaved 2 of 5	EAN-8	EAN-13
MSI	UPCA	UPCE
UPC/EAN supplementals	Coupon code	Trioptic 39
Web code	Chinese 2 of 5	GS1 DataBar
GS1 DataBar Truncated	GS1 DataBar Limited	GS1 DataBar Stacked
GS1 DataBar Expanded	GS1 DataBar Expanded Stacked	GS1 DataBar Expanded Stacked Omni
Imaging Decode Capability MC 95xx^ex-NI with SE4500 1D/2D Imager Engine		
1D Codes		
Code 39	Code 128	Code 93
Codabar	Code 11	Discrete 2 of 5
Interleaved 2 of 5	EAN-8	EAN-13
MSI	UPCA	UPCE
UPC/EAN supplementals	Coupon code	Trioptic 39
Web code	Chinese 2 of 5	GS1 DataBar
GS1 DataBar Truncated	GS1 DataBar Limited	GS1 DataBar Stacked
2D Codes		
TLC39	Composite AB	Composite C
Micro PDF-417	Macro PDF-417	(Macro) Micro PDF-417
QR Code	Data Matrix	microQR
Maxi Code	PDF-417	
US Postnet	US Planet	UK 4-state
Australian 4-state	Canadian 4-state	Japanese 4-state
USPS 4-state (US4CB)	Aztec	

Camera Decode Capability		
1D Codes	Code 128	*1234567*
Code 39	Code 128	Code 93
Codabar	Code 11	Discrete 2 of 5
Interleaved 2 of 5	EAN-8	EAN-13
MSI	UPCA	UPCE
UPC/EAN supplementals	Coupon code	Trioptic 39
Web code	Chinese 2 of 5	GS1 DataBar
GS1 DataBar Truncated	GS1 DataBar Limited	GS1 DataBar Stacked
2D Codes		
TLC39	Composite AB	Composite C
Micro PDF-417	Macro PDF-417	(Macro) Micro PDF-417
QR Code	Data Matrix	microQR
Maxi Code	PDF-417	
US Postnet	US Planet	UK 4-state
Australian 4-state	Canadian 4-state	Japanese 4-state
USPS 4-state (US4CB)	Aztec	
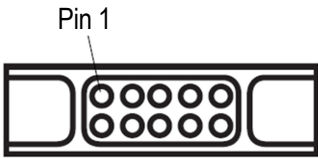
3.3 Battery

Battery	(only rechargeable in safe range)
– Type B7-A2Z0-0011	Lithium ions 3.7 V/4800 mAh
Operating temperature	
– During charging	0 °C to +40 °C 32 °F to 104 °F
– During discharging	-20 °C to +50 °C -4 °F to 122 °F
Storage temperature	-20 °C to +50 °C -4 °F to 122 °F
Relative air humidity	20 % - 95 % (non-condensing)
Backup battery	Ni-MH battery (rechargeable)
	2.4 V/15 mAh, rechargeable
	Integrated in the device and
	replaceable only in the factory.

3.4 External interfaces

Restrictions:

– Operating of the 10-pin data interface is only permissible outside the hazardous area and only with devices specified by the manufacturer!

– Operating of the headset port is only permissible outside the hazardous area and only with devices specified by the manufacturer!

Pin Outs Interface Connector	PIN	Descrpition
Pin 1	1	Power GND
	2	CRADLE_DETECT
	3	5.4 VDC
	4	Reserved
	5	Ground
	6	USB_ID
	7	Reserved
	8	USB_Vbus
	9	USB_D+
	10	USB_D

Pin Outs Interface Connector	PIN	Descrpition
	1	Mic_Gnd
	2	Ring
	3	Tip
Pin 1	4	GND

4. Transport and Storage

4.1 Transport

ⓘ
Report any transport damage or incomplete deliveries immediately after receipt in writing to the forwarding company and BARTEC GmbH.

Any damage caused through incorrect storage shall not be covered by the warranty provisions of BARTEC GmbH.

4.2 Storage

ATTENTION
Property damage through incorrect storage!
▶ Observe storage temperatures.
▶ Keep humidity away from the Mobile Computers.

Additional information on the batteries

The batteries of BARTEC (Type B7-A2Z0-….) are developed and manufactured in accordance with the highest industrial standards. The operating time or storage period of a battery is restricted, however. The actual life of a battery is influenced by different factors, e.g. hot, cold, rough operating environment and falling from a great height. If a battery is kept longer than six months, the performance may be impaired on a permanent basis. Keep the batteries in a dry, cool place. For longer periods of storage, remove the batteries from the device to prevent self-discharge, rusting of metallic parts and the escape of electrolyte.

Batteries kept for the duration of 6 months or longer should be charged and then discharged again at least every 3 months. If electrolyte has escaped, do not touch the areas affected and dispose of the batteries as prescribed. Replace the battery if the operating time has shortened considerably.

The standard warranty period for all BARTEC batteries is 6 months, whereby it is irrelevant whether the battery was acquired separately or was contained in the scope of delivery of the MC 95x^{ex}-NI.

5. Commissioning

> ⚠ **DANGER**
>
> **Unintended use endangers explosion protection.**
> **Risk of fatal injury in an explosive atmosphere!**
>
> ▶ The safety and accident prevention regulations relevant to the respective application must be adhered to. The units must be completely assembled before they may be operated.
>
> ▶ The device may not be opened by the user outside the hazardous area either! The user may not make any alterations to the device. Do not exchange or replace components and do not retrofit any components on internal plug connectors or slots.

Before you assemble the device, make sure that all components and documents exist.

Scope of delivery:	1 x MC 95xxex-NI
	1 x Lithium-ion battery
	1 x Strap assembly
	1 x Protective overlay on the display window
	1 x Stylus
	1 x User manual
	1 x Special tool for battery release
	(only for ATEX/IECEx zone 2 and zone 22)

5.1 Requirements in potentially explosive atmosphere

Mobile Computer

– If components other than those specified are used, the protection against explosions can no longer be assured.

– Substitution of any components may impair suitability for Class I, II, III Division 2 as well as for ATEX/IECEx Zone 2 and Zone 22.

– To prevent ignition of flammable or combustible atmospheres disconnect power before servicing!

– Do not open or charge the device in the hazardous area!

– Operating of the 10-pin data interface is only permissible outside the hazardous area and only with devices specified by the manufacturer!

– Operating of the headset port is only permissible outside the hazardous area and only with devices specified by the manufacturer!

– Protect the device from impact effects! Do not expose the operating equipment to any caustic/aggressive liquids, vapours or mist! In the event of malfunctioning or damage to the enclosure, take the equipment out of the potentially explosive atmosphere immediately, bring it into a safe area and decommission it by removing the battery!

- If on account of adverse effects or conditions (e.g. penetration of water, fluids, exposure to temperatures outside the specified range etc.) there is a danger of not being able to operate the equipment safely, switch off the equipment instantly and remove the battery.

- Avoid the influence of heat that is higher or lower than the specified temperature range. Do not place the devices anywhere near sources of heat, such as for example heaters, air exit openings in air-conditioners, or near cookers or other devices (including amplifiers) that radiate heat.

- Avoid the effects of moisture.

- Do not put any objects into the device, into the enclosure or other openings in the Mobile Computer. Openings in the device may not be blocked, obstructed or covered.

- Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

- Equipment that is damaged in any way or that does not function properly must instantly be removed from the hazardous area and sent in for inspection/repair!

- Take the device out of the hazardous areas before wiping it with a dry cloth or cleaning it!

- General statutory regulations or directives on safety at work; accident prevention regulations and environmental protection legislation must be complied with, e.g. Ordinance on industrial health and safety (BetrSichV) or the national ordinances.

- Ensure safe handling of the equipment during operation by making sure the device in a steady position and the user has sufficient space to move!

- When transporting the equipment in vehicles, it must be placed in appropriate compartments or fittings so that it cans neither fall off during the drive nor be exposed to extreme vibrations.

- The rules for hazardous areas (see NEC Article NFPA 70) must be observed. In particular, appropriate clothing and footwear should be worn in view of the risk of dangerous electrostatic charges. Do not wear rubber gloves or suchlike during operation!

Battery

– The battery may only be charged and changed outside the hazardous area!

– It must be ensured that only original batteries of the following type/s are used in safety-oriented operation. B7-A2Z0-0011 with 3.7 V/4800 mAh.

– The use of imitation batteries or batteries from other manufacturers will render the type of ignition protection ineffective and there will then be a risk of fire or explosion.

– Keep away from children.

– The battery may explode if disposed of in fire.

– DO NOT short circuit or disassemble battery.

– The battery may only be used for the purposes stated in the user manual and is only suitable for use in the MC 95xxex-NI (type B7-A29.-…./……..).

– If used incorrectly, there is a risk of burning. The battery should not be disassembled over a temperature higher than +50 °C (122 °F). If the battery is damaged, battery acid can escape from the cells and cause corrosion. For that reason, extreme care must be taken in handling and disposing of a damaged or leaking Li-ion battery.

– Defective batteries must be disposed of immediately, whereby the battery disposal regulations that apply to the respective region must be observed.

Accessories

– Only install or replace accessories outside the potentially explosive atmosphere.

– Use accessories exclusively which have been tested or certified by BARTEC for this purpose.

– The end user can replace the Micro SD card, SIM card or SAM card (only for MC 95x6ex HF-NI) himself.
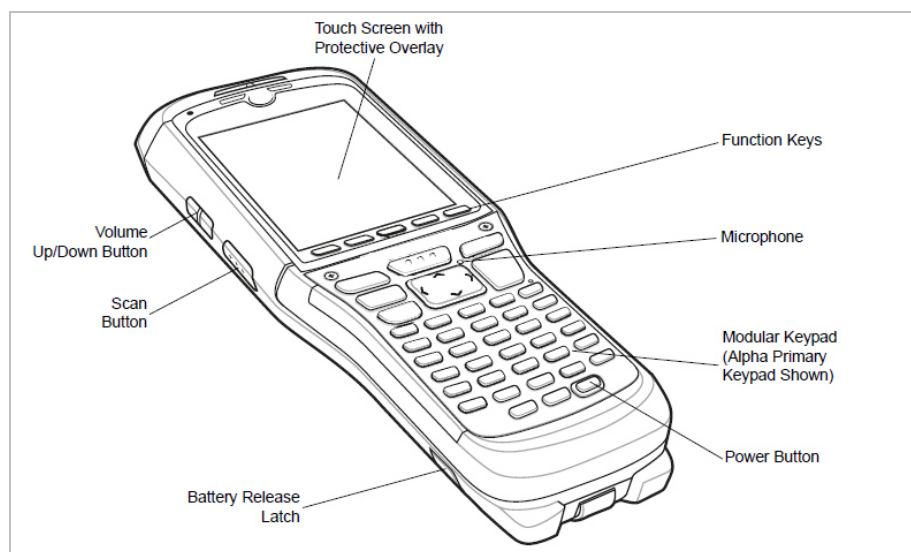
– The end user can replace the keypad himself.

5.2 First steps

➡ Install a micro SD card (optional).

➡ Install the SIM card (only MC 9596^{ex}-NI).

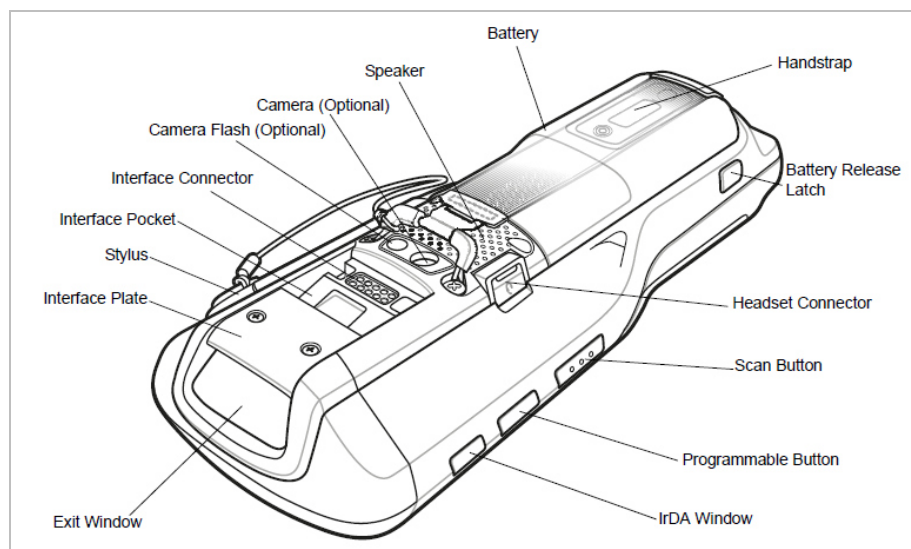➡ Insert the battery.

➡ Charge the MC 95xx^{ex}-NI.

The individual steps are explained on the following pages.

5.3 Structure

Front side

Rear side

5.4 Handling accessories

> ⚠️ **DANGER**
>
> **Non-certified accessories endanger explosion protection.**
> **Risk of fatal injury in an explosive atmosphere!**
>
> ▶ Only use original accessories from BARTEC / ZEBRA.
>
> **Only permitted outside the potentially explosive atmosphere:**
>
> ▶ Charge/change the battery. It must be ensured that only original batteries of the following type/s are used in safety-oriented operation. B7-A2Z0-0011 with 3.7 V/4800 mAh.
>
> ▶ Insert/replace SIM card (MC9596^{ex}-NI only).
>
> ▶ Insert/replace Micro SD card. Only Micro SD cards tested by BARTEC for that purpose may be used in the slot.
>
> ▶ Replace keypads.
>
> ▶ Replace screen protectors.

ℹ️ Further information is also provided by the ZEBRA documentation.

5.4.1 Handling the Battery

5.4.1.1 How the Battery works

The 4800 mAh battery type B7-A2Z0-0011 provides power to the MC 95xx^{ex}-NI and contains charging and status indications on the front of the battery. The indicators function differently depending upon the battery mode and allow the user to determine the health of the battery.
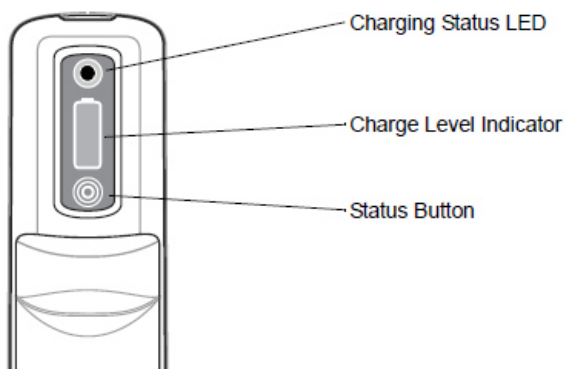

Charging Status LED indicates the charging status and health of the battery. The Charge Level Indicator indicates an unhealthy battery and the charge level of the battery.

5.4.1.2 Battery Health

A battery becomes unhealthy when the **Battery Usage Indication** reachs a predefined threshold (end of usable life).

The **Battery Usage Threshold** value can be changed. See the MC9500-K Integrator Guide from ZEBRA for more information.

When the battery becomes unhealthy, a dialog box displays on the MC 95xxᵉˣ-NI. When this appears, tap **Dismiss**. Replace the battery as soon as possible. The battery Charge Level indicator display an "X" when the battery becomes unhealthy (see Figure). When charging an unhealthy battery in the MC 95xxᵉˣ-NI, the Battery Status LED blinks red.
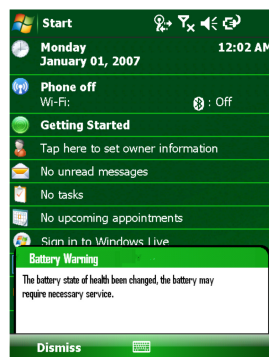
Battery Warning Dialogue box

Unhealthy Battery Indication

5.4.1.3 Battery Status

The MC 95xxᵉˣ-NI battery provides status information on the front of the battery that allows the user to make determination on what battery to use. The battery status indications vary depending upon the mode of the battery:

− Installed in an MC 95xxᵉˣ-NI

− In a charger

− Stand-alone

5.4.1.4 Installing the Battery

> ⚠ **DANGER**
>
> **Non-certified accessories endanger explosion protection.**
> **Risk of fatal injury in an explosive atmosphere!**
>
> ▶ It must be ensured that only original batteries of the following type/s are used in safety-oriented operation. B7-A2Z0-0011 with 3.7 V/4800 mAh. The use of imitation batteries or batteries from other manufacturers will render the type of ignition protection ineffective and there will then be a risk of fire or explosion.

Work steps:

1. Insert the battery, top first, into the battery compartment.

2. Press the battery down into the battery compartment until the battery release latches snap into place. The MC 95xx^{ex}-NI powers up automatically after inserting the battery.
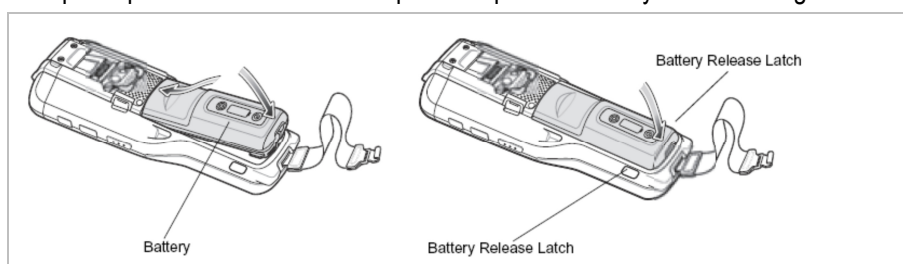

5.4.1.5 Replacing the Battery

> ⓘ Suspend the MC 95xx^{ex}-NI prior to removing the battery. Failure to properly remove the battery may cause the MC 95xx^{ex}-NI to cold boot and potential loss of data.

Work steps:

Only for MC95xx^{ex}-NI, type B7-A292-…./…….. UL Class I, II, III Division 2

3. If the MC 95xx^{ex}-NI is in suspend mode, press the red Power button to wake the device.

4. Press the red Power button to suspend the MC 95xxex-NI.

5. Wait for red Decode LED to turn on and then turn off.

6. Unhook the handstrap.

7. Press the two battery release latches to release the battery. The battery ejects slightly.
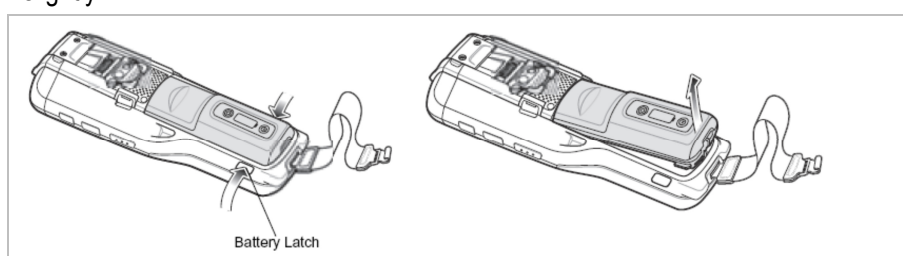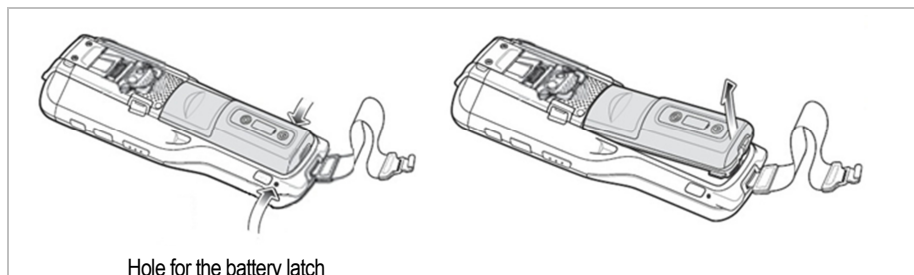
8. Lift the battery from the MC 95xx^ex-NI.

9. Insert the replacement battery, top first, into the battery compartment in the back of the MC 95xx^ex-NI.

10. Press the battery down until the battery release latches snap into place.
The MC 95xx^ex-NI powers up after inserting the battery.

Only for MC95xxex-NI, type B7-A293-…./…….. ATEX/IECEx Zone 2 and Zone 22

1. If the MC 95xx^ex-NI is in suspend mode, press the red Power button to wake the device.

2. Press the red Power button to suspend the MC 95xx^ex-NI.

3. Wait for red Decode LED to turn on and then turn off.

4. Unhook the handstrap.

5. Put the special tool inside of the two holes to release the battery latches to release the battery. The battery ejects slightly.

Special tool for the battery latch release

Hole for the battery latch

6. Lift the battery from the MC 95xx^ex-NI.

7. Insert the replacement battery, top first, into the battery compartment in the back of the MC 95xx^ex-NI.

8. Press the battery down until the battery release latches snap into place.
The MC 95xx^ex-NI powers up after inserting the battery.

5.4.1.6 Powering on the MC 95xx^ex-NI

After the MC 95xx^ex-NI is connected to power the splash screen displays for about a minute as the MC 95xx^ex-NI initializes its flash file system, then the calibration window appears.

ⓘ The Calibration screen can be accessed by pressing **CTRL** key - **BKSP** key or tapping **Start** > **Settings** > **Screen** > **Align Screen** button.

To calibrate the screen so the cursor on the touch screen aligns with the tip of the stylus:

1. Remove the stylus from its holder on the side of the MC 95xxex-NI.

2. Carefully press and briefly hold the tip of stylus on the center of each target that appears on the screen.

3. Repeat as the target moves around the screen, then tap the screen to continue.

5.4.1.7 Charging the battery

> The temperature range for charging the battery is 0 °C to +40 °C. Please note that charging the MC 95xx^{ex}-NI is under intelligent control.
>
> For this purpose, the charging procedure of the MC 95xx^{ex}-NI is activated and deactivated at short time intervals to keep the battery temperature within the permissible range. A LED on the MC 95xx^{ex}-NI indicates when the charging procedure was disabled because of excess temperature.
>
> Use only accessories approved by BARTEC and ZEBRA to charge the batteries.

Before using the MC 95xx^{ex}-NI for the first time, charge the battery using either a charging cable or a cradle:

- USB Charging cable
- Charging Cable (only charging)
- Single USB Charging Station
- 4-Slot Charging Station (only charging)
- 4-Slot Ethernet Charging Station

Align and hook the MC 95xx^{ex}-NI interface pocket onto the cradle's or cable's cleat. The battery automatically begins charging. See the following table for charging indications. The 4800 mAh battery, type B7-A2Z0-0011 fully charges in less than six hours.

State	Healthy Battery	Unhealthy Battery
	LED Status	**LED Status**
None − battery is not charging − MC 95xx^{ex}-NI is not connected correctly to the cradle/cable or not connected to a power source. − cradle/cable is not powered.	Off	Off
Charging	Slow Blinking Amber (1 blink every 2 seconds)	Slow Blinking Red (1 blink every 2 seconds)
Fully charged	Solid Green	Solid Red

| State	Healthy Battery	Unhealthy Battery
	LED Status	**LED Status**
Indicates a charging error, e.g.: – temperature is too low or too high. – charging has gone on too long without completion (typically eight hours).	Fast Blinking Amber (2 blinks/second)	Fast Blinking Amber (2 blinks/second)

The MC 95xxᵉˣ-NI is equipped with a battery backup module, which is charged automatically when the main battery is fully charged. When the MC 95xxᵉˣ-NI is taken into operation for the first time, the battery backup module needs about 36 hours to be fully charged. This is also the case when the main battery was removed for several hours, which discharges the backup module. The battery backup module ensures that the data in the working memory are retained for at least 15 minutes after the main battery of the MC 95xxex-NI was removed. When the MC 95xxᵉˣ-NI reaches a low charging state, the data in the working memory are retained for at least 36 hours due to the combination of main battery and battery backup module. Use a charging station or charging cable to charge the battery.

> ℹ You can find information on how to set up cables and charging stations, as well as about the charging procedure in the ZEBRA documentation MC9500-K Integrator Guide for integration of mobile computers.

5.4.1.8 Battery installed in an MC 95xxᵉˣ-NI

When the 4800 mAh battery, type B7-A2Z0-0011 is installed in the MC 95xxᵉˣ-NI, the user can view the charge level (with Status button press) and health of the battery. The Battery Status LED is disabled when the battery is installed in the MC 95xxᵉˣ-NI. If the battery is unhealthy, the Charge Level indicator displays an "X".
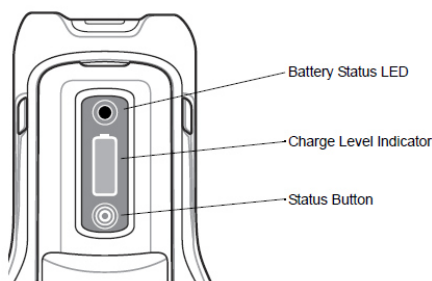
Press the Status button to display the current battery charge level. It will display for five seconds and then turn off. The following table lists the Charge Level Indications when the Status button is pressed.

	Charge Level Indicator	Description
		Indicates that the remaining charge is approximately between 0 % and 20 %.
		Indicates that the remaining charge is approximately between 21 % and 40 %.
		Indicates that the remaining charge is approximately between 41 % and 60 %.
		Indicates that the remaining charge is approximately between 61 % and 80 %.
		Indicates that the remaining charge is approximately between 81 % and 100 %.

ⓘ The battery front panel is not visible when the MC9500-K is charging in a cradle. The battery front panel is visible when charging with a charging cable. The Charge Level indicator displays a "charging in mobile computer" indication (see following table).

Action	State	Healthy Battery		Unhealthy Battery	
		Battery Status LED	Charge Level Indicator	Battery Status LED	Charge Level Indicator
None	**Not Charging**	Off		Off	
Button Press	**Not Charging**	Off		Off	
None	**Charging in cradle or cable**	Off		Off	
Button Press	**Charging in cradle or cable**	Off		Off	

The health of the battery can also be viewed on the MC 95xxᵉˣ-NI Power applet.

Tap **Start** > **Settings** > **Power** icon > **BatteryMgmt** tab.
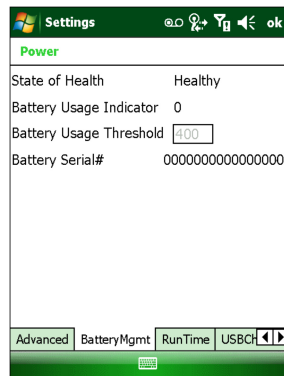
Power – BatteryMgmt Window

Item	Description
State of Health	Indicates the current battery state (Healthy or Unhealthy).
Battery Usage Indicator	Indicates the usage of the battery.
Battery Usage Threshold	Indicates the usage indicator threshold.
Battery Serial Number	Displays the serial number of the battery.
State of Health	Indicates the current battery state (Healthy or Unhealthy).

ⓘ For information on changing the Battery Usage Threshold, refer to the MC9500-K Mobile Computer Integrator Guide.

5.4.1.9 Charging the battery in a charging station

When the battery is in a Single Slot Battery Charger, Four Slot Battery Charger or Vehicle Battery Charger, the battery charging status and health is indicated on the front of the battery. If the charger is not powered, the battery acts as if it is in stand-alone mode. See the next Stand-alone chapter for more information.
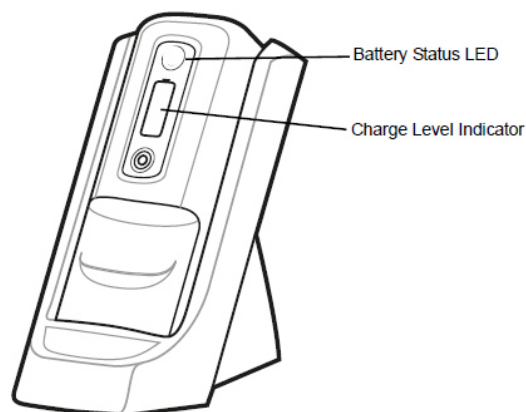
Battery in Single Slot Battery Charger

The Battery Status LED displays the current state of charging as described in the following Battery Status in charger table. The Charge Level indicator displays the charge level of a healthy battery as described in the following table.

With an unhealthy battery, an "X" appears on the display. To view the charge level, press the Status button. The display indicates the level of charge. After five seconds the display reverts to the "X" indication.

State	Healthy Battery		Unhealthy Battery	
	Battery Status LED	Charge Level Indicator	Battery Status LED	Charge Level Indicator
None (charger not powered)	Off		Off	
Charging	Slow Blinking Amber (1 blink every 2 seconds)		Slow Blinking Red (1 blink every 2 seconds)	
Fully Charged	Solid Green		Solid Red	
Charging Error*	Fast Blinking Amber (2 blinks / second)		Fast Blinking Amber (2 blinks / second)	
temperature is too low or too high.				
charging has gone on too long without completion (typically eight hours).				

5.4.1.10 Stand-alone

When the battery is not installed in an MC 95xxᵉˣ-NI or a charger, the charge status and health of the battery displays on the battery front panel. If the battery is unhealthy, an "X" appears in the Charge Level indicator. Press the Status button to view the health and charge level of the battery. The Battery Status LED lights and the Charge Level indicator display the charge level. After five seconds the LED turns off and the Charge Level indicator reverts to the previous display. See Table for Battery Status LED and Charge Level indicator descriptions.

State	Healthy Battery		Unhealthy Battery	
	Charging state LED	Charging state display	Charging state LED	Charging state display
No action	Off		Off	
Keystroke	Steady green light		Steady red light	

5.4.2 Handling the Micro SD card

> **ATTENTION**
>
> **Damage to the SD card through electrostatic discharges!**
>
> ▶ Follow proper ESD precautions to avoid damaging the micro SD card. Proper precautions include, but are not limited to, working on an ESD mat and ensuring that the operator is property grounded.

BARTEC recommends to use following tested micro SD cards:

– 1 GB Order no. 17-C1Z0-0007 or
– 2 GB Order no. 17-C1Z0-0008

5.4.2.1 Installing the Micro SD card

Work steps

1. If the MC 95xx^{ex}-NI is in standby mode, press the red Power button to activate the device.

2. Press the red Power button to suspend the MC 95xx^{ex}-NI.

3. Wait for red decode LED to turn on and then turn off.

4. Unhook the handstrap.

5. Remove the battery.

6. Remove the SD card cover using the end of the stylus.
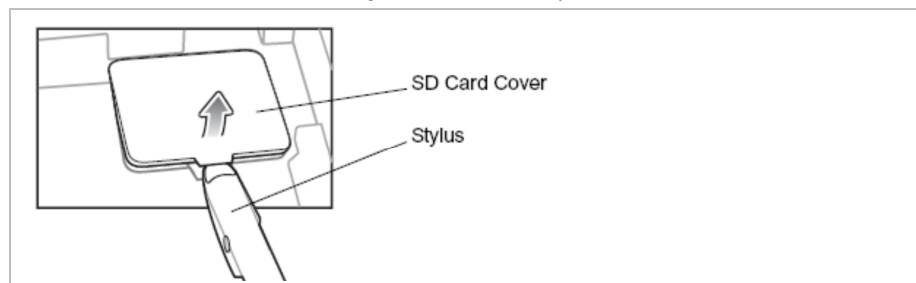
7. Slide the micro SD card holder door to the left to unlock.

8. Lift the micro SD card holder door.

9. Place the micro SD card onto the contacts.

10. Close the card holder door and slide to the right to look into place.

11. Align the SD card cover over the access hole and press down until it snaps into place.

5.4.2.2 Removing the Micro SD card

ⓘ Suspend the MC 95xx^{ex}-NI prior to removing the battery. Failure to properly remove the battery may cause the MC 95xx^{ex}-NI to cold boot and potential loss of data.

Work steps

1. If the MC 95xx^{ex}-NI is in standby mode, press the red **Power** button to activate the device

2. Press the red **Power** button to suspend the MC 95xx^{ex}-NI.

3. Wait for red decode LED to turn on and then turn off.

4. Unhook the handstrap.

5. Remove the battery.

6. Remove the SD card cover using the end of the stylus.

7. Slide the SD card holder door to the left to unlook.

8. Lift the micro SD card holder door.

9. Remove micro SD card from holder.

10. Close the micro SD card holder door.

11. Slide the micro SD card holder door to the right to look into place.

12. Align the SD card cover over the access hole and press down until it snaps into place.

13. Replace the battery.

5.4.3 Handling the SIM card

GSM phone service requires a SIM card (Subscriber Identification Module) or smart card. Obtain the card from your service provider. The card fits into the MC 9596ᵉˣ-NI and can contain the following information:

–   Mobile phone service provider account details.

–   Information regarding service access and references.

–   Any additional services to which you have described.

5.4.3.1 Inserting the SIM card

ⓘ   **Only MC 9596ex-NI configuration**

For more information about SIM cards, refer to the service provider's documentation.

Work steps

1.   If the MC 9596ᵉˣ-NI is in suspend mode, press the red **Power** button to wake the device.

2.   Press the red **Power** button to suspend the MC 9596ᵉˣ-NI.

3.   Wait for red Decode LED to turn on and then turn off.

4.   Unhook the handstrap.

5.   Remove the battery.

6.   Remove SIM card cover using the end of the stylus.
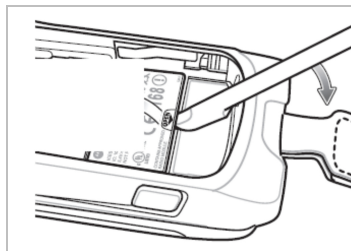
7.   Slide the SIM card holder door to the left to unlock.

8.   Lift the SIM card holder door.
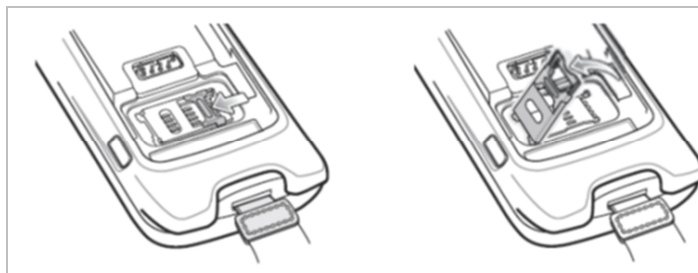
9. Insert the SIM card into the holder door with the contacts facing down and the card notch facing up.

10. Close SIM card holder door and slide to the right to lock into place.

11. Align the SIM card cover over the access hole and press down until it snaps into place.

12. Insert the battery.

13. After completing initial MC 9596ex-NI setup or after replacing a SIM card:

   (1) Press the red **Power** button.

   (2) On the Today screen tap **Wireless Manager**.

   (3) Ensure Phone is on.

   (4) Press the red **Power** button to suspend the MC 9596ex-NI.

   (5) Perform a warm boot.

   (6) Make a call to verify cellular connection.

ⓘ For detailed information about WWAN activation and settings, refer to the MC9500-K Integrator Guide from ZEBRA.

5.4.3.2 Removing the SIM card

ⓘ Suspend the MC 9596ex-NI prior to removing the battery. Failure to properly remove the battery may cause the MC 9596ex-NI to cold boot and potential loss of data.

Work steps

1. If the MC 9596ex-NI is in suspend mode, press the red **Power** button to wake the device.

2. Press the red Power button to suspend the MC 9596ex-NI.

3. Wait for red Decode LED to turn on and then turn off.

4. Unhook the handstrap.

5. Remove the battery.

6. Remove the SIM card cover using the end of the stylus.

7. Slide the SIM card holder door to the left to unlock.

8. Lift the SIM card holder door.

9. Remove SIM card from holder.

10. Close the SIM card holder door.

11. Slide the SIM card holder door to the right to lock into place.

12. Align the SIM card cover over the access hole and press down until it snaps into place.
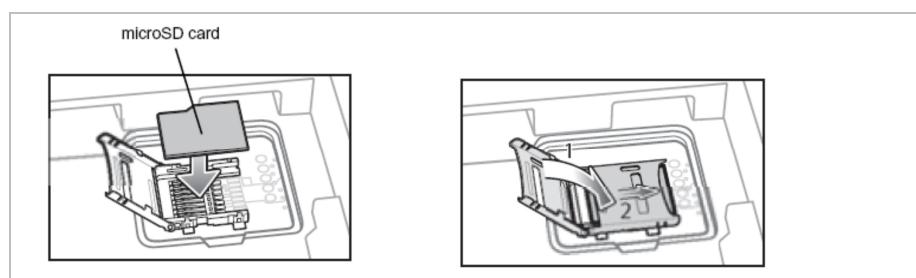
13. Replace the battery.

5.4.4 Replacing the keypad

ⓘ
Power off the MC 95xx^{ex}-NI before start of change parts.

Put the MC 95xx^{ex}-NI into suspend mode before you remove the battery. Failure to properly remove the battery may cause the MC 95xx^{ex}-NI to cold boot and potential loss of data.

The MC 95xx^{ex}-NI has interchangeable modular keypads.

If the MC 95xx^{ex}-NI is in suspend mode, press the Power button to wake the device. Wait for the MC 95xx^{ex}-NI to fully awake from suspend mode.

Work steps

1. Press the Power button to suspend the MC 95xx^{ex}-NI.

2. Wait for red Decode LED to turn on and then turn off.

3. Unhook the handstrap.

4. Remove the battery.

5. Remove and discard two screws securing the keypad to the housing.

6. Slide the keypad down toward the bottom of the device and then lift.

Remove screws   Remove keypad
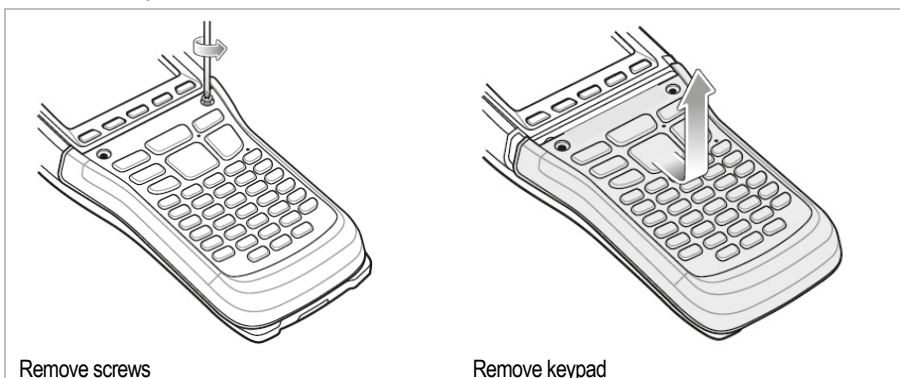
7. Align the new keypad with the housing.

8. Press the keypad down and then slide the keypad up.

Press keypad down   Slide keypad up
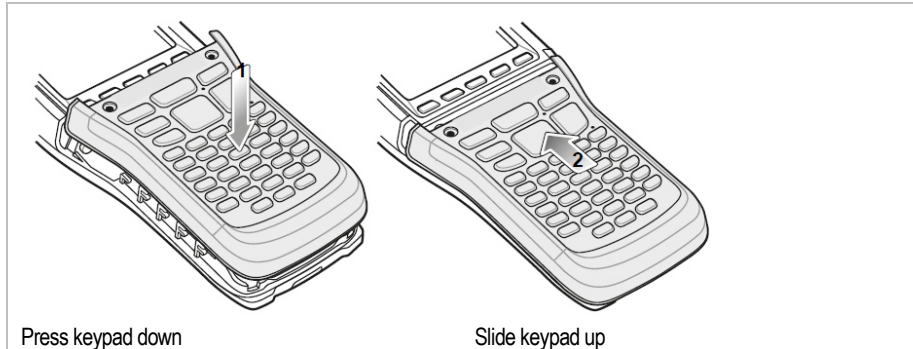
9. Secure the keypad with two new screws provided with the keypad. Torque the screws to 0.25 Nm (0.18 ft-lbs.)**.**

Torque screws
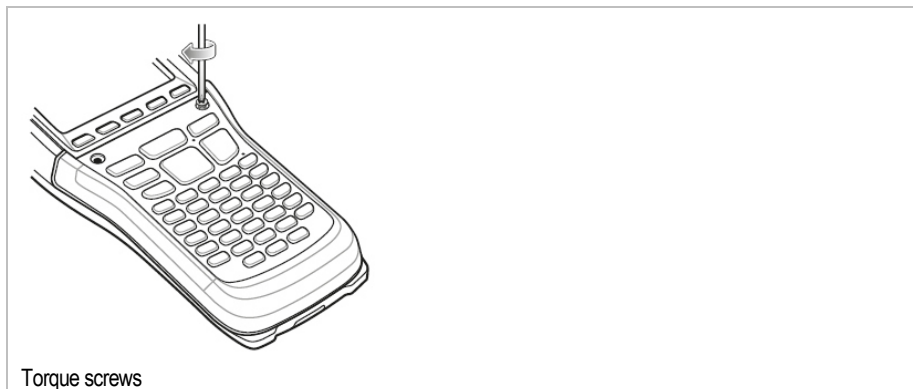
10. Replace the battery.

11. Press the power button for five seconds to perform a warm boot.

5.4.5 Removing/replacing the screen protector

ATTENTION
Incorrect handling may cause damage to property!
▶ Use a screen protector so as not to impair the device warranty.
▶ Only use screen protector (Type B7-A2Z0-0017) from BARTEC.
▶ Observe the installation instructions for the screen protector.
▶ Do not use any sharp objects to remove the screen protector!

The MC 95xx^{ex}-NI is provided with a screen protector. BARTEC recommends using this to minimize wear and tear. Screen protectors enhance the usability and durability of touch screen displays.

To remove the screen protector, lift the corner using a thin plastic card, such as a credit card, then carefully lift it off the display.

5.5 Connection to a PC

The MC 95xx^{ex}-NI series is supplied with the Microsoft WM 6.5 or higher operating system. Microsoft provides software free of charge for connection to a PC for synchronisation, installation and data exchange.

5.5.1 Active Sync

To be able to communicate with various host partners, it is recommendable to install Microsoft ActiveSync (version 4.5 or higher) on the host computer.

ActiveSync synchronises the information on the mobile computer with information on the host computer. Changes made on the mobile computer or host computer remain in both partners after synchronisation.

The ActiveSync Microsoft program is used for synchronising or installing software/data.

ActiveSync is available for download as freeware at **www.microsoft.com**.

Supporting operating system: Windows XP or earlier operating systems

For system requirements see the Microsoft homepage under Active Sync version 4.5 or higher.

Further information on ActiveSync can be found in the ZEBRA MC9500-K Integrator Guide or on the Microsoft homepage.

5.5.2 DEVICE Center or mobile device center

To be able to communicate with various host partners installed on Windows Vista or Windows 7, it is recommendable to install the Microsoft Device Center on the host computer.

Device Center synchronises the information on the mobile computer with information on the host computer. Changes made on the mobile computer or host computer remain on both partners after synchronisation.

The Microsoft Mobile Device Center program is used for synchronising or installing software/data. Mobile Device Center is available for downloading as freeware at **www.microsoft.com**.

Supporting operating systems: Windows Vista or Windows 7

For system requirements see Device Center on the Microsoft homepage.

Further information on Device Center can be found in the ZEBRA MC9500-K Integrator Guide or on the Microsoft homepage.

6. Operation

The operator using an electric system in a potentially explosive environment must keep the accompanying operation equipment in a good condition, operate and monitor it correctly and conduct the requisite services and repairs.

Before commissioning the MC95xx^ex^-NI, check that all components and documents are there.

6.1 Final inspection

The following aspects must be checked before putting the device into operation:

▶ Check the MC95xx^ex^-NI for damage to display, scanner window and the enclosure.

▶ Check that the used battery is a certified one.

▶ Make sure that the battery is changed and insert in the MC95xx^ex^-NI.

▶ Close the battery.

▶ Check when use a screen protector that it is a certificated one.

6.2 Handling

Optimum standby position

The recommended position for the mobile computer when not in use:

Right:

The Mobile Computer is protected from damage.

Wrong:

The Mobile Computer can be damaged by objects on the surface or may fall down.

6.3 Care and cleaning

We recommend that the devices be cleaned regularly depending on use and also treated with care to ensure smooth and trouble-free operation.

6.3.1 Care

	Recommendation
Display	– Only use with supplied stylus for the touchscreen – Use screen protector – Use a soft cloth to clean and do not use aggressive cleaners
Enclosure	– Protect device from impacts – Do not expose to extreme load, e.g. strong knocks and falling from great heights
Environment	– Do not expose to extreme temperatures and – Do not leave in dirty, moist or wet environment
Battery	– Change regularly – Discharge and charge regularly (every 3 months)

6.3.2 Cleaning

> ⚠ **DANGER**
>
> **Risk of fatal injury in an explosive atmosphere!**
>
> ▶ Only clean the devices and the accessories outside the potentially explosive atmosphere.

> ⚠ **CAUTION**
>
> **Risk of injury when using the nozzle!**
>
> ▶ Do not direct the nozzle onto yourself or other persons.
> ▶ Pay attention that the nozzle does not point towards your face.

> **ATTENTION**
>
> **Devices and accessories can be destroyed if handled incorrectly.**
> **The following precautionary measures should be taken for your own safety and to ensure the operational safety of the device:**
>
> ▶ Generally separate the charger from the power supply.
> ▶ Only clean the cradle contacts if the battery has been removed.
> ▶ There should be no residue, e.g. fluff on the contacts.
> ▶ There should be no moisture residue on the contacts.
> ▶ Heed the safety precautions when drying with compressed air.

6.3.2.1 Suitable materials

- Alcohol cleaning cloths
- Lens cleaning cloths
- Cotton swabs
- Isopropanol
- Compressed air spray with tube

6.3.2.2 Housing

Wipe the housing including the keys and the spaces between the keys with the alcohol cleaning wipes.

6.3.2.3 Display

The display can be cleaned with the alcohol cleaning wipes, however, attention must be paid that liquid does not collect around the edges of the display. The display must then be dried immediately with a soft, fluff-free cloth to avoid streaks.

6.3.2.4 Scan window

Clean the scan window regularly with a lens cleaning wipe or another suitable cleaning agent for optical equipment such as, for example, spectacles.

6.3.2.5 Interface connection

1. Remove the battery from the MC 95xx^{ex}-NI. See chapter "Replacing a battery".
2. Dip the end of a cotton bud in Isopropyl.
3. Rub over the interface connection on the rear of the MC 95xx^{ex}-NI several times with the tip of the cotton bud. Pay attention that no cotton residue remains on the plug connector.
4. Repeat this procedure at least three times.
5. Remove all grease and dirt deposits in the plug connector area with the help of the alcohol-soaked cleaning cotton bud.
6. Then use a dry cotton bud and repeat steps 3 to 5.
7. Spray compressed air onto the plug-connector area and keep the hose, resp. the nozzle about 15 mm above the surface.
8. Check the area for grease and dirt residue and repeat the cleaning procedure if necessary.
9. Change the battery.

6.3.2.6 Battery contacts

1. Remove the battery from the MC 95xxᵉˣ-NI. See chapter "Replacing a battery".
2. Dip the end of a cotton bud in Isopropyl.
3. Rub over the battery contacts on the rear of the battery several times with the tip of the cotton bud. Pay attention that no cotton residue remains on the contacts.
4. Repeat this procedure at least three times.
5. Remove all grease and dirt deposits in the contact area with the help of the alcohol-soaked cleaning cotton bud.
6. Then use a dry cotton bud and repeat steps 3 to 5.
7. Spray compressed air onto the plug-connector area and keep the hose, resp. the nozzle about 15 mm above the surface.
8. Check the area for grease and dirt residue and repeat the cleaning procedure if necessary.
9. Insert the battery in the MC 95xxᵉˣ-NI.

6.3.2.7 Cleaning the charging station plug-connectors

1. Separate the DC power supply cable from the charging station.
2. Dip the end of a cotton bud in Isopropyl.
3. Rub over the contacts of the plug-connector(s) with the tip of the cotton bud. Move the cotton bud slowly from one side of the plug-connector to the other and back again. Pay attention that that no cotton residue remains on the plug-connectors.
4. All of the plug-connector sides should also be cleaned with the help of the cotton bud.
5. Spray compressed air onto the plug-connector area and keep the hose, resp. the nozzle about 15 mm above the surface.
6. Make sure that no lint remains from the cotton buds and remove any lint.
7. If there are any grease and dirt deposits on other sectors of the charging station, remove this with a lint-free cloth and alcohol.
8. Allow the alcohol to dry at least 10 to 30 minutes in the air (depending on the ambient temperature and humidity) before you connect the charging station to the power source. The required drying time increases with lower temperature and high humidity. The required drying time decreases with higher temperature and lower humidity.

6.3.2.8 Cleaning interval

The customer must determine the cleaning interval at his own discretion and with consideration of the different environments in which the mobile units are used. The devices can be cleaned at discretionary frequent intervals. When used in very polluted environments it is, however, advisable to clean the scan window regularly to guarantee optimum scan performance.

6.4 Operation recommendations and requirements

6.4.1 Basic safety and health protection requirements

Consult your local health and safety officer to ensure that you are acquainted with the safety regulations in your company which serve to protect employees at the work place.

6.4.1.1 Ergonomic recommendation

The following recommendations should be considered for everyday work at the workplace:

– Avoid one-sided, constantly repetitive movements.

– Body posture should be as neutral as possible.

– Avoid exercising great force.

– Keep objects which are used frequently within a functional distance.

– Adjust the working height to the body height and type of work.

– Erect objects without vibration.

– Avoid the exercise of direct pressure.

– Ensure that tables and chairs are adjustable.

– There must be sufficient room for body movements.

– Ensure that the working environment is suitable.

– Optimise workflows.

– Alternate between the left and right hand as frequently as possible when conducting repetitive tasks.

6.4.1.2 Vehicle installation

RF signals may impair incorrectly installed or inadequately shielded electronic systems in vehicles (including safety systems). If you have any questions on your vehicle, get in touch with the manufacturer or a sales person. You can also learn from the manufacturer whether additional equipment has been fitted to the vehicle. An airbag has a strong impact. Do NOT place objects, such as installed or portable radio equipment, in the area above the airbag or in the area of deployment of the airbag. If the radio equipment was not correctly installed in the vehicle, severe injuries may result if the airbag is triggered. Position the device within good range. Ensure that you have access to the device without having to take your eye off the road.

ⓘ   It is not permitted to connect a warning device which leads to horn sounds or light signals when receiving a call in road traffic.

Road traffic safety

Do not take any notes and do not use the device when driving. Making a list of to-do's or browsing through the address book when driving has a negative influence on safe driving. When driving on the roads, you must primarily think of your safety and that of the other road users. You should therefore concentrate completely on the road. Check the legal provisions on the use of wireless devices in road traffic of the respective region. Always observe these. If you use a wireless device during driving, rely on your good judgment and remember the following:

1. Become acquainted with the wireless device and its functions such as the shortcut dialing or dial repetition. These functions may prove to be useful if you would like to make a call without taking your eye off the road.

2. Where possible, use hands-free equipment.

3. Let your dialogue partner know that you are behind the steering wheel. Where necessary, discontinue the call in dense traffic or poor weather conditions. Rain, sleet, snow, ice and even very dense traffic represent dangers.

4. Dial the required numbers carefully and estimate the traffic situation. Make your calls when you have brought your car to a stop or before you leave. Plan your calls such that they can be made when the car is parked. If you really must make a call during the trip, only dial a part of the number, check the road and look in the rear view mirror and then dial the rest of the number.

5. Do not surccumb to stressful and emotional telephone conversations which could take your attention from the road. Let your dialogue partner know that you are in a car and refrain from conversations which could take your attention away from the road.

6. Call for help using your mobile device if necessary. Dial the emergency services (911 in the USA and 112 in Europe) or other local emergency service numbers in the event of fire, accidents or medical emergences. Remember that these calls are free of charge on the wireless device! The call can be made independently of security code or networks with or without the SIM card.

7. Help your fellow humans in emergency situations with your mobile device. If you witness a serious accident, crime or other emergency, call the emergency service (911 in the USA and 112 in Europe) or another local emergency service number because you could be the one who needs help next time.

8. Call the breakdown service or a special mobile radio number for support if you encounter problems on the road. If you pass a car with a breakdown, which does not represent a serious impediment to traffic, pass traffic lights which do not function, a traffic accident with slight damage and without injured people or a possibly stolen car, please get in touch with the road police or another special mobile radio number for support.

9. "The mobile communication industry requests you to give safety priority when using your device/telephone."

6.4.1.3 Information for the use of wireless devices

Heed all warnings referring to the use of wireless devices.

6.4.1.4 Safety in aircraft

Switch off the wireless device when asked to do so by the ground staff and by employees of the airline. If your device has a flight mode or a similar function, find out about its correct use from the aircraft staff.

6.4.1.5 Safety in hospitals

Wireless devices emit radio frequencies and can cause disturbances to medical technical electrical devices. Wireless devices should be switched off on request when you are in hospitals, clinics or health establishments. This is intended to avoid any possible interference with sensitive medical equipment.

6.4.1.6 Heart pacemakers

Manufacturers recommend that a minimum distance of 15 cm be observed between a wireless handheld device and a pacemaker to avoid potential interference. This guideline is in line with independent research results and recommendations of Wireless Technology Research.

- Wearers of heart pacemakers
- Persons with heart pacemakers should ALWAYS keep at least 15 cm away from the activated device.
- The device may not be worn by these persons in the breast pocket.
- The device should be held to the ear which is furthest away from the heart pacemaker.
- If you have reason to assume that interference has arisen, you should SWITCH OFF the device immediately.

6.4.1.7 Hearing aids

The wireless device may cause disturbances to hearing devices. Get in contact with the manufacturer of your hearing device in the case of disturbances to ask about possible solutions.

- The device may not be worn in the breast pocket of these persons.
- The device should be held to the ear which is furthest away from the heart pacemaker.
- If you have reason to assume that interference has arisen, you should SWITCH OFF the device immediately.

6.4.1.8 Other medical equipment

Ask your doctor or the manufacturer of the medical device to determine whether putting the wireless product into operation impairs the medical device.

6.4.2 Equipment of the laser devices

Devices from BARTEC/ZEBRA equipped with lasers comply with the Guidelines 21CFR1040.10 and 1040.11 (with the exception of the deviations set out in the Laser Notice No. 50 dated 24 June 2007) and EN 60825-1:2007 and IEC 60825-1 (Ed. 2).

The classification of the laser device is stated on a plate attached to the device.

Laser devices of Class 2 work with a visible low volt light emitting diode. As for every bright light source, for example the sun, you should not look directly into the light beam. There is no information about the hazards of being briefly exposed to the laser light of a laser scanner of Class 2.

The use of control elements, adjustments or the application of procedures which do not comply with the instructions described here may lead to hazardous exposure to beams.

6.4.3 Restrictions to wireless devices

The use of wireless devices is possibly forbidden or restricted. This applies primarily on board aircraft, in hospitals, in the vicinity of explosive substances or under other hazardous conditions. If you are not sure which regulations apply to the use of the device, ask permission before switching it on.

Country-specific roaming

This device has the International Roaming function (IEEE802.11d) which ensures that the device is used on the channels prescribed for the respective country.

Ad-hoc operation

The ad-hoc operation is restricted to the channels 36–48 (5150–5250 MHz). The use of this bandwidth is restricted to indoor areas; use outdoors is not permitted.

FCC requirements to protect against high-frequency interference

This device has been tested and satisfies the limit values for a digital device of Class B according to Part 15 of the FCC Guideline. These limit values were stipulated to guarantee appropriate protection against disturbances if the device is used in residential areas. The device generates and uses radio frequency energy and may emit this energy. This can have a disturbing effect on other radio frequencies if the device is not connected and used in accordance with the operating instructions. A guarantee that no interference will arise for a certain installation cannot be given. If the device causes interference to the radio or TV reception which can be recognised by switching the device on and off, the interference should be eliminated by one or several of the following measures:

− Re-alignment or moving of the receiving antenna

− Enlarging the distance between device and receiver

− Connecting the device to a different socket than the one to which the receiver is connected

− Advice from the dealer or a radio/television technician

Radio transmission devices (Part 15)

This device satisfies the requirements of Part 15 of the FCC Guidelines. The operation of the device is based on the following two conditions:

− The device may not cause any damaging interference

− The device must absorb all receiving interference including interference which may lead to undesirable operation.

Requirements placed on the protection from high frequency interference - Canada

This digital device of Class B satisfies the Guidelines of the Canadian standard ICES-003.

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

Radio transmission devices

This device corresponds to RSS 210 (Industry & Science Canada). The operation of the device is based on the following two conditions:

− The device may not cause any damaging interference

− The device must absorb all receiving interference including interference which may lead to undesirable operation.

Label symbol: "IC:" before the radio certification means that the technical data of Industry Canada have been satisfied.

Country-specific approvals

Test symbols are attached to the device which shows that the radio modules are approved for use in the following countries: USA, Canada and Europe.

Detailed information on the test symbol for other countries is provided in the EC declaration of conformity.

− **N.B. 1**: For 2.4-GHz-products: Europe covers Belgium, Bulgaria, Denmark, Germany, Estonia, Finland, France, Greece, Great Britain, Ireland, Iceland, Italy, Latvia, Liechtenstein, Lithuania, Luxembourg, Malta, Netherlands, Norway, Austria, Poland, Portugal, Romania, Sweden, Switzerland, Slovakia, Slovenia, Spain, Czech Republic, Hungary and Cyprus.

European Economic Area

The operation of RLAN device (2.4 GHz) is subject to the following restrictions in the European Economic Area (EEA):

− The 2.4 GHz devices may not excced a radiation of 100 mW EIRP and must be within the frequency range of 2.400 and 2.4835 GHz.

− In France, devices used outdoors must be between 2.4 and 2.454 GHz.

− In Italy, a user licence is necessary for use outdoors.

The use of Bluetooth® Wireless Technology is subject to the following restrictions in the European Economic Area (EEA):

− The 2.4-GHz devices may not exceed a radiation of 100 mW EIRP and must be within the frequency range of 2.400 and 2.4835 GHz.

− In France, the devices used outdoors are restricted to 10mW EIRP.

− In Italy, a user licence is necessary for use outdoors.

Other countries

− Mexico: Devices must be within the frequency range of 2.450 and 2.4835 GHz.

− Sri Lanka: Devices must be within the frequency range of 2.400 and 2.430 GHz.

Radio transmitters for RLAN devices

The operation of RLAN devices (5 GHz) is subject to the following restrictions in Canada:

− Frequency range restricted to 5.60 GHz to 5.65 GHz

− This device corresponds to the radio standard RSS 210 of the Industry & Science Canada.

The following two conditions apply to operation:

− The device may not cause any damaging interference.

− The device must absorb all received interference, also interference which can lead to undesired functions.

Labelling: the abbreviation "IC:" in front of the radio certification merely states that the technical requirements of Industry Canada have been satisfied.

6.5 Electromagnetic fields

6.5.1 International

The device complies with internationally recognised standards relating to human exposure to electromagnetic fields from radio devices.

Reducing RF Exposure - Use Properly

Only operate the device in accordance with the supplied instructions.

6.5.2 Portable devices

This device was tested for typical body-worn operation. Use only BARTEC-tested-and-approved belt clips, holsters, and similar accessories to ensure FCC Compliance. The use of third-party belt-clips, holsters, and similar accessories may not comply with FCC RF exposure compliance requirements, and should be avoided.

> ⓘ The MC 95xx^{ex}-NI should only be worn on the body when switched off.

6.5.3 Handheld devices

To comply with FCC RF exposure requirements, this device must be operated in the hand with a minimum separation distance of 20 cm or more from a person's body. Other operating configurations should be avoided.

6.6 Energy Saving Options

Observe the following battery saving tips:

■ Leave the MC 95xxex-NI connected to AC power at all times when not in use.

■ Set the MC 95xxex-NI to turn off after a short period of non-use.

■ Set the backlight to turn off after a short period of non-use.

■ Turn off all wireless activities when not in use.

6.6.1 Changing the Power Settings

To set the MC 95xxᵉˣ-NI to turn off after a short period of non-use:

1. Tap **Start** > **Settings** > **System** tab > **Power** icon > **Advanced** tab.

2. Select the **On battery power**: **Turn off device if not used for** check box and select a value from the drop-down list.

3. Select **ok**.

6.6.2 Changing the Backlight Settings

To change the backlight settings in order to conserve more battery power:

1. Tap **Start** > **Settings** > **System** tab > **Backlight** icon > **Battery Power** tab.

2. Select the **Disable backlight if device is not used for** check box and select a value from the drop-down list.

3. Select the **Brightness** tab.

4. Tap the **Disable backlight** check box to turn off the display backlight, or use the slider to set a low value for the backlight.

5. Select **ok**.

6.6.3 Changing the Keypad Backlight Settings

To change the keypad backlight settings in order to conserve more battery power:

1. Tap **Start** > **Settings** > **System** tab > **Keylight** icon > **Battery Power** tab.

2. Select the **On battery power: Disable keylight if device if not used for** check box and select a value from the drop-down list.

3. Select the **Advanced** tab.

4. Tap the **Disable keylight** check box to turn off the keypad backlight.

5. Select **ok**.

6.6.4 Changing the settings for the display backlight

This is how you change the settings for the display backlight to save battery power:

1. Tap on **Start** > **Settings** > Tab **System** > Symbol **Backlight** > Tab **Battery Power**.

2. Activate the control box **Disable backlight if device is not used for**, and select a value from the Dropdown List.

3. Select the Tab **Brightness**.

4. Tap on the control box **Disable backlight**, to switch off the display backlight, or use the slider to set a lower value for the display backlight.

5. Tap on **OK**.

6.6.5 Turning Off the Radios

Windows Mobile 6 devices include **Wireless Manager**, which provides a simple method of enabling, disabling, and configuring all the device's wireless capabilities in one place.

To open **Wireless Manager**, tap the **Connectivity** icon or tap **Wireless Manager** on the **Today** screen.
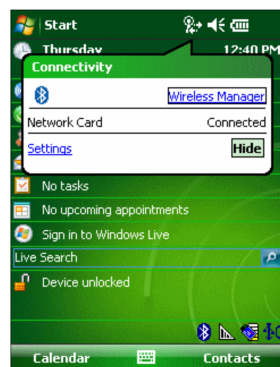
Opening Wireless Manager

Wireless Manager Windows

Wireless connection options vary depending upon configurations.

1. To enable or disable a wireless connection, tap the specific button.

2. To enable or disable all wireless connections, tap and hold the **All** button.

3. To configure settings for a connection, tap **Menu**.
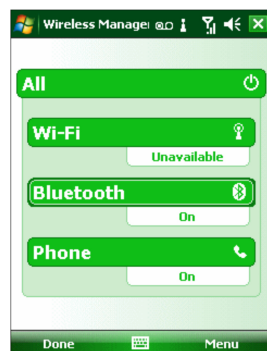
Wireless Manager Menu

6.7 Software versions

This user manual various software configurations and references are made to operating system or software versions for:

- ◼ Adaptation Kit Update (AKU) version
- ◼ OEM version
- ◼ BTExplorer version
- ◼ Fusion version
- ◼ Phone version

Existing software versions and operating systems in the MC 95xx^{ex}-NI:

> The software is not relevant for the equipment explosion protection. You can find information about this in the ZEBRA documentation:
>
> **https://www.zebra.com/us/en/support-downloads.html**
>
> under: Support Portal / Get Product Downloads

6.7.1 AKU version

To determine the Adaptation Kit Update (AKU) version:

Tap **Start** > **Settings** > **System** tab > **About** icon > **Version** tab.

The second line lists the operating system version and the build number. The last part of the build number represents the AKU number. For example, *Build 20963.1.5.2* indicates that the device is running AKU version 1.5.2
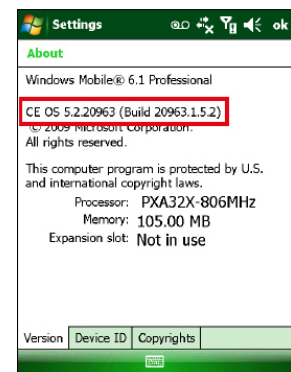
6.7.2 OEM version

To determine the OEM software version:

Tap **Start** > **Settings** > **System** tab > **System Info** icon > **System** tab.
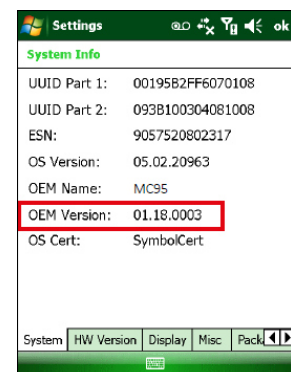
6.7.3 BTExplorer Version

ℹ️ BTExplorer application is only available when the StoneStreet One Bluetooth stack is enabled. Refer to the MC9500-K Mobile Computer Integrator Guide for information on selecting the Bluetooth stack.

To determine the BTExplorer software version:

Tap **BTExplorer** icon > **Show BTExplorer** > **File** > **About**.

6.7.4 Fusion Version

To determine the Fusion software version:

Tap **Fusion Signal Strength** icon > **Wireless Status** > **Versions**.

6.7.5 Phone Software

To determine the Phone software version:

On MC 9596^ex-NI, tap **Start** > **Phone** > **Menu** > **Options** > PhoneInfo tab.

On MC 9598^ex-NI, tap **Start** > **Phone** > **Menu** > **Options** > **Version information** tab.
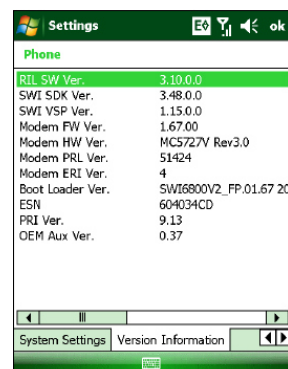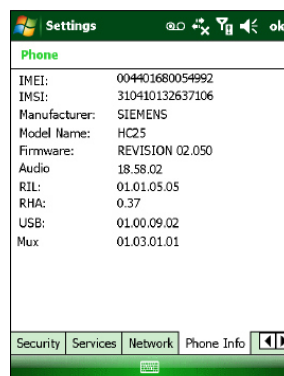
7. Faults and Troubleshooting

> ⚠ **DANGER**
>
> **Risk of fatal injury in an explosive atmosphere!**
>
> ▶ Examine defective devices and any accessories only outside the potentially explosive atmosphere.

ⓘ Notes on Troubleshooting can be found in the MC9500-K User Guide or MC9500-K Integrator Guide from ZEBRA on the ZEBRA homepage.

https://www.zebra.com

ZEBRA website for the MC 95xx manuals for the non-Ex protected version

− SUPPORT & DOWNLOADS

− Support Portal

− Select your product to find manuals, software, and FAQ.

If you have problems with your device, please contact the BARTEC sales company or commercial representation responsible for your region. You can find contact information under:

http://www.bartec.de/homepage/eng/10_unternehmen/10_unternehmen/s_10_10_50.asp?C=1

7.1 Resetting the Mobile Computer MC 95xx^{ex}-NI

There are two resetting functions: Warm boot and cold boot. In the case of a warm boot the MC 95xx^{ex}-NI is restarted by closing all executed programs. In the case of a cold boot, the MC 95xx^{ex}-NI is also restarted and, in addition, some drivers initialised. Data stored in a flash memory or on a memory card are not lost.

Carry out a warm boot first if the MC 95xx^{ex}-NI does not function properly. If the MC 95xx^{ex}-NI still doesn't respond, carry out a cold boot.

7.1.1 Perform a warm boot

Press the red **Power** switch for about five seconds. Release the **Power** switch as soon as the MC 95xx^{ex}-NI begins with the start procedure.

7.1.2 Perform a cold boot

To execute a cold boot keep the keys 1 and 9, as well as the red **Power** switch pressed simultaneously.

7.1.3   Clean boot

ATTENTION
Incorrect handling may cause damage to property!
▶   The Clean Boot must be conducted by an authorised systems administrator.
▶   You must connect the MC 95xx^{ex}-NI to AC power during a clean boot. Removing AC power from the MC 95xx^{ex}-NI during a clean boot may render the MC 95xx^{ex}-NI inoperable.

ⓘ   A Clean Boot resets the MC 95xx^{ex}-NI to the factory settings.

Work steps:

1.   Download the Clean Boot Package from the ZEBRA SUPPORT website. Follow the instructions included in the package for installing the package onto the MC 95xx^{ex}-NI.

2.   Simultaneously press the Power button and the 1 and 9 keys.

3.   Immediately, as soon as the device starts to boot and before the splash screen is visible, press and hold the left scan button.

4.   Insert the MC 95xx^{ex}-NI into a powered cradle or cable.

5.   The MC 95xx^{ex}-NI updates and then re-boots.

6.   After successful clean boot, the calibration screen appears.

ⓘ   Further information is provided in the MC95x Integrator Guide from ZEBRA.

8. Service, Inspection, Repair

Commissioning and service of Mobile Computers may be conducted exclusively by trained and qualified staff! The staff is familiar with the installation, assembly, commissioning and operation of the Mobile Computers, has been informed about the risks and has the qualifications necessary for this work.

8.1 Inspection

According to EN 60079-17 and EN 60079-19, the owner/operator of electrical plants in potentially explosive atmospheres is obliged to have these plants checked by an electrician to ensure that they are in a correct condition.

8.2 Service and repair work

In addition to Directive 99/92/EC, the standards EN 60079-17 and EN 60079-19 also apply to the servicing and repair as well as the testing of accompanying operating devices.

If you have problems with your device, please contact the BARTEC sales company or commercial representation responsible for your region. You can find contact information under:

http://www.bartec.de/homepage/eng/10_unternehmen/10_unternehmen/s_10_10_50.asp?C=1

8.2.1 Information on sending in for repairs

The following information is required for the repair.

– Serial number of the device (you can find this on the manufacturer label)

– Model number or product name (you can find these on the manufacturer label)

– Software type and version number

Manufacturer label
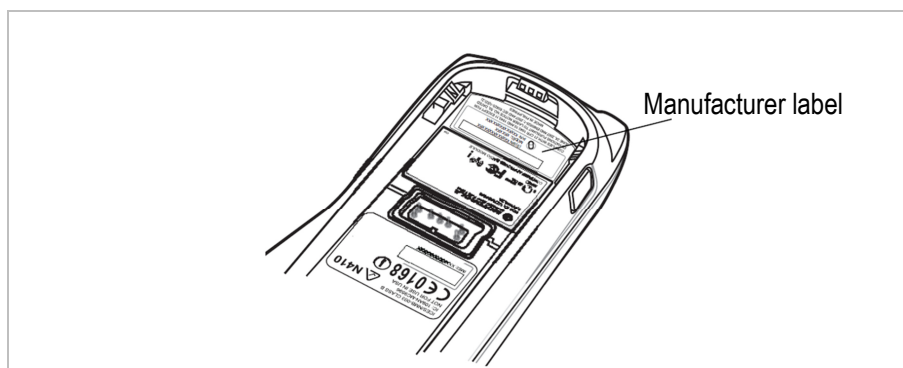
BARTEC answers enquiries by email, telephone or fax. If the problem cannot be rectified by the BARTEC sales companies or commercial representations, you may need to return the device to us for maintenance.

If you wish to send in a defective device for repairs please first read the RMA procedure guide. Then fill in and sign the RMA (Return Merchandise Authorisation) form and send it to our "Retouren Centre".

Email: **services@bartec.de**
Fax: +49 7931 597-119

We cannot guarantee any contractually agreed processing times for devices that are sent in without an RMA number.

The RMA guide and the RMA form are available on our homepage for downloading.

http://www.bartec-group.com

Quality and Culture

RMA Form

Any questions? Send us an e-mail or call us.

E-mail: **services@bartec.de**
Phone: +49 7931 597-444

9. Disposal

The Mobile Computers contain metallic and plastic parts and electronic components.

ⓘ The statutory requirements for electrical scrap must be observed for disposal, e.g. disposal by an authorised disposal company.

10. Dispatch and Packaging Information

ATTENTION
Sensitive devices! Damage may be caused by incorrect packaging!
▶ Use original packaging for transport.

11.   Accessories

Accessories for use in the Ex area

Designation	BARTEC Order no.
Battery	
Spare battery	B7-A2Z0-0011
SD card	
Micro SD cards 1 GB	17-C1Z0-0007
Micro SD cards 2 GB	17-C1Z0-0008
Protective display foil	
5 pieces per package	B7-A2Z0-0017
Keypad with overlay (green)	
Spare keypad for	
- with alpha-numeric keypad	05-0080-0498
- with alpha-prime keypad	05-0080-0497
- with numerical phone keypad	05-0080-0496
- with numerical calculator keypad	05-0080-0495
Overlay for keypad (green)	
Spare overlay for MC 95xx^{ex} NI	
- for alpha-numeric keypad	03-9829-0046
- for alpha-prime keypad	03-9829-0047
- for numerical phone keypad	03-9829-0048
- for numerical calculator keypad	03-9829-0049
Screws	
Spare screw for keypad	03-1321-0015
Further Accessories	
Special tool for battery release	03-5510-0008

Accessories for use in the non-Ex area

Designation		ZEBRA Order no.	BARTEC Order no.
Single Slot USB Cradle			
Single Slot USB cradle		CRD9500-1000UR	03-9915-0005
without accessories			
Single Slot USB Cradle KIT		CRD9500-101UR	03-9915-0009
Consists of:	- Single slot USB cradle		
	- Power pack		
Single Slot Charging Station for Spare Battery			
Single Slot Charging Station		SAC9500-1000CR	03-9915-0010
without accessories			
Single Slot Charging Station KIT		SAC9500-101CR	03-9915-0011
Consists of:	- Single Slot Spare Battery Charging Station		
	- Power pack		
4-Slot Charging Station for Spare Battery			
4-Slot Charging Station		SAC9500-4000CR	03-9915-006
without accessories			
Power Packs for			
Single slot USB cradle and charging station	AC 100-240 V, DC 12 V, 3.33 A	KT-14000-148R	03-9911-0015
Quadruple charging station	AC 100-240 V, DC 12 V, 9.0 A	50-14000-241R	03-9911-0021
Cables			
Micro USB Active Sync cable	for single slot USB cradle	25-124330-01R	03-9919-0013
DC Y-cable	allowed connection of a single slot USB cradle and a single slot charging station to a power pack	25-122026-01R	03-9915-0015
DC 4-times cable	allowed connection of a four quadruple charging station to one power pack	25-85992-01R	03-9915-0016
Line cord (EU)		-	03-9609-0013
Line cord (US)		23844-00-00R	03-9609-0021
Further Accessories			
Wall mounting bracket			
- for 2 4-slot charging		KT-116362-01R	03-9869-0015
- for 1 4-slot charging		KT-116364-01R	03-9869-0016
Spare Stylus		KT-122016-03R	03-9849-0059
- for 3 pieces per set			
Spare Handstrap Set		SG-MC9523043-01R	03-9849-0060
- for 5 pieces per set			
User manual		-	B1-A295-7D0001
- Mobile Computer Full NI			

12. Order Numbers

MC 95xx^{ex}-NI without WWAN option

B 7 - A 2 9 ☐ - 0 ☐ 0 D / A ☐ 1 0 0 0 0 ☐

Explosion Protection		
UL	Class I, II, III Division 2	2
ATEX	Zone 2 and Zone 22	3
Data Capture		
SE 950	1D Laser Scan Engine	A
SE 4500	1D/2D Imager Engine	B
SE 950	1D Laser with camera	C
SE 4500	1D/2D Imager with camera	D
Version Keyboard		
Alpha Numeric Primary Wide		B
Alpha Primary		C
Numeric Telephony		D
Numeric Calculator		E
Micor SD Card		
None		0
1 GB		2
2 GB		3

MC 95xxex-NI with GPS option

B 7 - A 2 9 ☐ - 6 ☐ A E / A ☐ 1 0 0 0 0 ☐

Explosion Protection		
UL	Class I, II, III Division 2	2
ATEX	Zone 2 and Zone 22	3
Data Capture		
SE 950	1D Laser Scan Engine	A
SE 4500	1D/2D Imager Engine	B
SE 950	1D Laser with camera	C
SE 4500	1D/2D Imager with camera	D
Version Keyboard		
Alpha Numeric Primary Wide		B
Alpha Primary		C
Numeric Telephony		D
Numeric Calculator		E
Micor SD Card		
None		0
1 GB		2
2 GB		3

MC 95xx^ex-NI with CDMA option

B 7 - A 2 9 ☐ - 8 ☐☐ E / A ☐ 1 0 0 0 0 ☐

Explosion Protection		
UL	Class I, II, III Division 2	2
ATEX	Zone 2 and Zone 22	3
Data Capture		
SE 950	1D Laser Scan Engine	A
SE 4500	1D/2D Imager Engine	B
SE 950	1D Laser with camera	C
SE 4500	1D/2D Imager with camera	D
Voice and Data Transmission		
CDMA/EVD0 Verizon		B
CDMA/EVD0 Sprint		C
Version Keyboard		
Alpha Numeric Primary Wide		B
Alpha Primary		C
Numeric Telephony		D
Numeric Calculator		E
Micro SD Card		
None		0
1 GB		2
2 GB		3

13. Additional Information

13.1 Links

http://www.bartec-group.com   BARTEC website

https://www.zebra.com   ZEBRA Homepage

The ZEBRA page for the MC95xx User Manuals and software of the non-explosion protected version

➡ SUPPORT & DOWNLOADS

➡ Support Portal
  Select your product to find manuals, software, and FAQ

The ZEBRA product information page for the SCAN Engine, which is used in the explosion protected version of the MC95xx^{ex}HF-NI.

➡ PRODUCTS

➡ OEM

➡ OEM SCAN ENGINES

➡ OEM ARRAY IMAGER

➡ OEM ARRAY IMAGER SCAN ENGINES

➡ SE4500 OEM ARRAY IMAGER SCAN ENGINE

or

➡ PRODUCTS

➡ OEM

➡ OEM SCAN ENGINES

➡ OEM LASER SCAN ENGINES

➡ SE95x OEM LASER SCAN ENGINE

http://www.microsoft.com

Microsoft page for Active Sync or
Windows Mobile Device Center

Erklärung der Konformität
Declaration of Conformity
Attestation de conformité

Nº B1-A293-7C0001_A

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 produit

CE

MC959xᵉˣ-NI und Zubehör	**MC959xᵉˣ-NI and accessories**	**MC959xᵉˣ-NI Les accessoires**

Typenbezeichnung :　**Typ B7-A293-..../SW......**
Typ B7-A2Z0-0020
Typ B7-A2Z0-0021
Typ B7-A2Z0-0022
Typ B7-A2Z0-0023
Typ B7-A2Z0-0024

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	**ATEX-Directive 94/9/EC**	**ATEX-Directive 94/9/CE**
EMV-Richtlinie 2004/108/EG	**EMC-Directive 2004/108/EC**	**CEM-Directive 2004/108/CE.**
und mit folgenden Normen oder normativen Doku-menten, soweit zutreffend, übereinstimmt	and is in conformity with the following standards or other normative docu-ments, if applicable	et est conforme aux normes ou documents normatifs ci-dessous, le cas échéant
EN 60079-0:2009	EN 301 511: V9.0.2	EN 50360:2001 (Max average 10g SAR 0.470 W/Kg)
EN 60079-11:2007	3GPP TS 51.010-1 v.8.2.0 (GSM 11.10-1)	EN 301 489-17 V2.1.1
	EN 301 908-1 V3.2.1	EN 62311:2008
EN 60950-1:2006 +A11:2009	EN 301 908-2 V2.2.1	FCC 47CFR Part2; OET Bulletin 65c
EN 301 489-1 V1.8.1,	3GPP TS 34.121	RSS 102 Issue 2
IEC Class2 Laser Product	3GPP TS 34.123	EN 301 489-3 V1.4.1
EN 60825-1:2007	EN 300 328 V1.7.1	IEC 60825-1:2007

03-0383-0289

Erklärung der Konformität
Declaration of Conformity
Attestation de conformité

BARTEC

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

Nᵒ **B1-A293-7C0001_A**

EN 61000-3-2:2006 (ClassA)	47 CFR Part 15, Subpart B, Class B	ICES 003 Issue4, ClassB
21CFR1040.10	EN 300 440-2 V1.3.1	EN 55022:2006 +A1:2007 (Class B)
EN 61000-3-3:2008	EN301 489-7 V1.3.1	EN 301 893 V1.5.1
EN 301 489-24 V1.4.1		

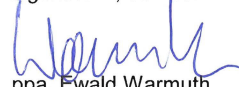**Kennzeichnung**   **Marking**   **Marquage**

⟨Ex⟩ II 3G Ex ic IIC T6 Gc
⟨Ex⟩ II 3D Ex ic IIIC T90°C Dc

Verfahren der internen Fertigungs- kontrolle | **Procedure of internal control of Production** | **Procédure de contrôle interne de fabrication**

CE

Bad Mergentheim, den 25.11.2013

ppa. Ewald Warmuth
Geschäftsleitung / General Manager

03-0383-0289

Certificate of Compliance

Certificate Number	20101119-E321557
Report Reference	E321557, 2010 October 02
Issue Date	2010 November 19

Page 1 of 2

UL Underwriters Laboratories

Issued to: **BARTEC GMBH**

Max-Eyth-Strasse 16
Bad Mergentheim, 97980 Germany

This is to certify that representative samples of

INFORMATION TECHNOLOGY EQUIPMENT FOR USE IN HAZARDOUS LOCATIONS
See Addendum for model designations.

Have been investigated by Underwriters Laboratories in accordance with the Standard(s) indicated on this Certificate.

Standard(s) for Safety:
ANSI/ISA 12.12.01-2007
UL 60950-1, 2nd Edition
CSA C22.2 No. 213-M1987
CSA C22.2 No. 60950-1-07

Additional Information:
See UL On-line Certification Directory at WWW.UL.COM for additional information.

Only those products bearing the UL Listing Mark for the US and Canada should be considered as being covered by UL's Listing and Follow-Up Service meeting the appropriate requirements for US and Canada.

The UL Listing Mark for the US and Canada generally includes: the UL in a circle symbol with "C" and "US" identifiers: c(UL)us the word "LISTED"; a control number (may be alphanumeric) assigned by UL; and the product category name (product identifier) as indicated in the appropriate UL Directory.

Look for the UL Listing Mark on the product

William R. Carney
Director, North American Certification Programs

Certificate of Compliance

Certificate Number   20101119-E321557
Report Reference   E321557, 2010 October 02
Issue Date   2010 November 19

Underwriters Laboratories

This is to verify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.

Class I, Division 2, Groups A, B, C, and D Hazardous Locations:
Handheld Mobile Computer Model MC95ex-NI-B7-A291, followed by 0, 6 or 8, followed by A, B, C or D, followed by O, A, B or C, followed by any letter, followed by any letter, followed by B, C, D or E, followed by 0 or 1, followed by 00, followed by any number between 000-999

Class I, Division 2, Groups A, B, C, and D; Class II, Division 2, Groups F and G; Class III Hazardous Locations:
Handheld Mobile Computer Model MC95ex-NI-B7-A292, followed by 0, 6 or 8, followed by A, B, C or D, followed by O, A, B or C, followed by any letter, followed by any letter, followed by B, C, D or E, followed by 0 or 1, followed by 00, followed by any number between 000-999

William R. Carney
Director, North American Certification Programs
Underwriters Laboratories Inc.
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For questions, please contact a local UL Customer Service Representative at http://www.ul.com/global/eng/pages/corporate/contactus/

BARTEC protects

p e o p l e   a n d

the environment

by the safety

of components,

s y s t e m s

a n d   p l a n t s .