

MC9500-NI FOR UL CLASS I, II, III / DIVISION 2, ATEX ZONE 2 AND ZONE 22 USER GUIDE



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Zebra does not assume any product liability arising out of, or in connection with, the application or use of any product, circuit, or application described herein.

No license is granted, either expressly or by implication, estoppel, or otherwise under any patent right or patent, covering or relating to any combination, system, apparatus, machine, material, method, or process in which Zebra products might be used. An implied license exists only for equipment, circuits, and subsystems contained in Zebra products.

Warranty

For the complete Zebra hardware product warranty statement, go to: <http://www.zebra.com/warranty>.

Service Information

If you have a problem using the equipment, contact your facility's Technical or Systems Support. If there is a problem with the equipment, they will contact the Zebra Support at: <http://www.zebra.com/support>.

For the latest version of this guide go to: <http://www.zebra.com/support>.

Software Support

Zebra wants to ensure that customers have the latest release of entitled software at the time of product purchase.

To confirm that your Zebra device shipped with the latest release of entitled software, visit: www.zebra.com/support. Check for the latest software from Software Downloads > Product Line/Product > Go.

If your device does not have the latest entitled software release as of your product purchase date, please e-mail a request to Zebra at: entitlementservices@zebra.com.

You must include the following essential device information with your request:

- Model number
- Serial number
- Proof of purchase
- Title of the software download you are requesting.

If it is determined by Zebra that your device is entitled to the latest software release, you will receive an e-mail containing a link directing you to a Zebra Web site to download the appropriate software.

Notes on This Guide



IMPORTANT Read carefully before putting the devices into operation.

The user guide is a constituent part of the product and 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. It is written for technically qualified personnel.

Familiarity with and the technically perfect implementation of the safety instructions and warnings described in this guide are preconditions for safe installation and commissioning. The safety notes and warnings given in this guide are given in a general way and only qualified personnel will have the necessary specialized know-how to interpret and implement them correctly in specific cases.

Qualifications of the Personnel Working with the Devices

The user guide is written for all people who carry out assembly, installation, commissioning and service work on the product, whereby the directives and standards 99/92/EC, EN 60079-17, EN 60079-19 for the gas area and EN 61241-17 and EN 61241-19 for the dust area must be observed.

Handling the Product

The product described in this guide has been tested and left the factory in perfect condition in regard to 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.

Use for the Intended Purpose



NOTE The versions, components, screens and windows illustrated in this guide are examples only and can deviate from the actual display.

The information in this guide relates to the explosion protected version of the MC9500-NI Series.

This guide contains all important information concerning explosion protection. In addition, the original user guides are also available and these contain information about handling and commissioning. In the event of information overlap, the information in this guide supersedes other guides.

Documentation Set

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

- **MC9500 Quick Start Guide** - This user guide describes the operation of the mobile computer MC9500.
- **MC9500 User Guide** - This user guide describes the use of the MC9500 mobile computer series.
- **MC9500 Integrator Guide** - This user guide describes the setup of the MC9500 mobile computer, including accessories.
- **Microsoft® Applications for Windows Mobile® 6 User Guide for Enterprise Mobility Devices** - This user guide describes the use of Microsoft applications.
- **Enterprise Mobility Application Guide** - 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.

Safety Instructions



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

The safety instructions and warnings are assigned to the individual work steps. Careful handling and consistent observation of the instructions will prevent accidents, personal injuries and damage to property.

The adherence to all directions and safety instructions in this manual is a precondition for safe working and the correct handling of the device.

The graphic representations in these instructions serve to show the information being described and are not necessarily true to scale and they may deviate slightly from the actual construction of the device.

Marking


Particularly important points in these instructions are marked with a symbol:




WARNING! Non-observance leads to death or serious physical injury.
The necessary safety measures must be taken.



CAUTION Warning of damage to property and financial and penal disadvantages (e.g. loss of guarantee rights, liability etc.).

 **ATTENTION** Important instructions and information on preventing disadvantageous behavior.

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

Product Description

Definition

The MC9500-NI is a 3.5G Worldwide device and has been specifically modified for use in hazardous areas:

- ATEX Zone 2 and Zone 22 or
- 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 MC9500-NI allow data to be captured easily in one-hand operation.

Several technologies are available for data communication with other systems:

- Wireless 3.5G WAN (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 color 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 MC9500-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, Zebra offers SD memory cards.

Use

The MC9500-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 MC9500-NI, series has been modified for use in the hazardous area of:

- ATEX 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 MC9500-NI may not be used in locations of:

- ATEX Zone 0
- ATEX Zone 1 and Zone 21

- UL Class I, II Division 1
- UL Class I, II Division 1
- UL Class II Division 2, Groups E.

Technical Data

Table 1 Technical Data

Type	Description
Explosion Protection ATEX Zone 2 and Zone 22	
Ex protection	II 3G Ex ic IIC T6 II 3D tD A22 IP64 T90°C
Ambient temperature	-20 °C ≤ Ta ≤ +50 °C
Temperature Code	T6
Standards	EN 60079-0:2009 EN 60079-11:2007 EN 61241-0:2006 EN 61241-11:2007
Explosion Protection UL Division 2	
Ex protection type	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
Standards	ISA12.12.01 1st Edition UL 60950-1 1st Edition C22.2 No. 213-M1987 C22.2 No. 60950-1-03 1st Edition
Characteristics	
Dimensions (height x width x depth)	approx. 23.36 cm x 8.89 cm x 5.08 cm (9.2 inch x 3.5 inch x 2.0 inch)
Weight including battery	approx. 623 g (22 oz) depending on the version and configuration
Display	Transflective 3.7 inch color TFT-LCD display LED backlight, 65K colors, 640 x 480 pixels
Touchscreen	Glass analog resistive touchscreen

Table 1 *Technical Data (continued)*

Type	Description
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
Performance Features	
Processor	Marvel PXA320@ processor with 806 MHz
Operating system	Windows Mobile 6.5
Memory	256 MB RAM/1 GB Flash
Expansion slot	Micro SD slot / supports up to 16 GB
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
Application Development	
EMDK (Enterprise Mobility Developer Kit)	Available for: C, Java and .Net
More tools are available from Zebra for the devices.	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.

Table 1 *Technical Data (continued)*

Type	Description
Voice and Data Transmission Wireless WAN	
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
Voice and Data Transmission Wireless LAN	
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, EAPGTC), CCXv4 certified, support for IPv6, FIPS140-2 certified
Spreading procedure	Direct Sequence Spread Spectrum (DSSS) and Orthogonal Frequency Multiplexing Process (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
Voice and Data Transmission Wireless PAN	
Bluetooth	Class 2. Version 2.1 with EDR
Maximum data rate	Up to 2.1 Mbit/s
Antenna	Integrated in the device
Options for Data Capture	

Table 1 *Technical Data (continued)*

Type	Description
Four possible configurations	SE950 1D Standard Range Scan Engine SE4500 1D/2D Imager Engine SE950 1D Standard Range Scan Engine and camera SE4500 1D/2D Imager Engine and camera
Color Camera	
Resolution	3.0 megapixels
Exposure	user controllable flash
Objective	Auto focus
SE950 1D Standard Range Scan Engine	
Reading range	approx. 10 cm to 120 cm (3.9 in. to 47 in.)
Resolution	4 mil minimum element width
Roll	± 35° from the vertical
Pitch angle	± 65° from normal
Skew tolerance	± 50° from normal
Ambient light immunity	107,640 lux
Scan rate	104 (± 12) scans/sec. (bi-directional)
Scan angle	47° ± 3 ° standard 35° ± 3° reduces
SE4500 1D/2D Imager Engine	
Reading range	approx. 6 cm to 50 cm (2.3 inc. to 19 in.)
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 96,000 lux
Aiming element (VLD)	655 Nm ± 10 Nm
Illumination element (LED)	625 Nm ± 5 Nm
Field of view	Horizontal 40° Vertical 25°


Table 1 *Technical Data (continued)*

Type	Description
Decodable Bar Code Types	
Laser Decode Capability MC9500-NI with SE950 1D-Standard Range Scan Engine	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 MC9500-NI with SE4500 1D/2D Imager Engine	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, 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	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, 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
Technical Data Battery	
Battery 82-111636-05 for UL Full NI 82-111636-04 for UL Full NI	(rechargeable only in the safe area) Lithium ions 3.7 V/4800 mAh Lithium ions 3.7 V/7020 mAh
Operating temperature During charging During discharging	0 °C to +40 °C (32 °F to 104 °F) -20 °C to +50 °C (-4 °F to 122 °F)
Storage temperature	-20 °C to +50 °C (-4 °F to 122 °F)

Table 1 *Technical Data (continued)*

Type	Description
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.

Technical Data External Interface




CAUTION 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!


Safety Instructions

Warnings for the MC9500-NI



CAUTION The device may not be opened by the user outside the hazardous area. 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.



NOTE Exception: microSD card, SIM card, battery and screen protector.



CAUTION 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 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 (see [Technical Data External Interface on page 12](#)) 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, vapors 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.



CAUTION 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 (see [Technical Data on page 7](#)). 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.



ATTENTION 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 is 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 can 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.

Warnings for Battery



CAUTION 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. 82-111636-05 with 3.7 V/4800 mAh. 82-111636-04 with 3.7V/7020 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 MC9500-NI.

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.

Laser Devices Warnings



CAUTION Laser-equipped devices from Zebra conform to Directive 21CFR1040.10 and 1040.11. (with the exception of the deviations listed in Laser Notice no. 50 of 24 June 2007) as well as EN 60825-1:2007 and IEC 60825-1 (Ed. 2).

The classification of the laser apparatus is specified on a sign affixed to the device.

Class 2 laser devices operate with a visible low-voltage light emitting diode. As with any bright source of light, for example the sun, the user should avoid looking directly into the light beam. However, there is no evidence of risks in momentary or brief exposure to a Class 2 laser.

The use of control elements, adaptations or the application of procedures which do not agree with the instructions described here can lead to a hazardous exposure to radiation.

Laser Devices

Complies with 21CFR1040.10 and 1040.11 except for deviations pursuant to Laser Notice No. 50, dated June 24, 2007 and EN60825-1:2007 and IEC 60825-1 (Ed.2). The laser classification is marked on one of the labels on the device.



CAUTION Use of controls, adjustments or performance of procedures other than those specified herein may result in hazardous laser light exposure.

Class 2 laser scanners use a low power, visible light diode. As with any very bright light source, such as the sun, the user should avoid staring directly into the light beam. Momentary exposure to a Class 2 laser is not known to be harmful.

Health and Safety Recommendations



CAUTION Use only the accessories, batteries and battery chargers approved by Zebra. Do not attempt to charge damp/wet MC9500-NI or batteries. All components must be dry before they are connected to an external power supply.

Ergonomic Recommendations



CAUTION The following recommendations should be observed to avoid or minimise potential health problems at the workplace. Contact your health and safety officer on site to ensure that you are familiar with your company's safety regulations, which serve to protect employees in the workplace.

- Avoid unilateral repetitive movements.
- Posture should be as neutral as possible.
- Avoid using excessive force.

- Keep objects that are used frequently within easy functional reach.
- Perform tasks at heights that suit the person and the type of work
- Place the objects in positions that will eliminate vibrations
- Avoid exerting direct pressure
- Provide adjustable tables and chairs.
- Ensure sufficient clearance for easy movement
- Provide a suitable working environment
- Optimize work procedures
- Alternate hands as often as possible when doing repetitive tasks.

Installation in Vehicles

RF signals can have a negative impact on electronic systems in vehicles (including safety systems) if they have not been installed correctly or shielded adequately. If you have any questions about your vehicle, please get in touch with the manufacturer or with a sales representative. You can find out from the manufacturer if any additional equipment has been installed in the vehicle. An airbag inflates with great force. **DO NOT PLACE ANY** objects, such as mounted or mobile wireless equipment in the area above the airbag or in the airbag deployment area. If the wireless equipment in the vehicle was not installed properly, serious injuries can occur when the airbag is deployed. Position the device within reach. Make sure you have access to the device without having to take your eyes off the road.



NOTE Connection to an alert device that will cause a horn to sound or a light to flash on receipt of an incoming call on public roads is not permissible.

Safety in Traffic

Do not make any notes or use the device while driving. Creating a “to do” list or flipping through the address book while driving interferes with safe driving.

In road traffic you must first and foremost concentrate on your own safety and that of the other road users. Give your full attention to the road. Check the legal regulations on the use of wireless devices in road traffic in the respective region. Always observe them. If you use a wireless device while driving, rely on your common sense and adhere to the following:

1. Familiarise yourself with the wireless device and its functions, such as speed dial and redial. These functions may prove to be useful if you wish to make a call without taking your eyes off the road.
2. Use a hands-free telephone, if possible.
3. Inform the person you are speaking with that you are driving. If necessary, end the call if there is heavy traffic or bad weather. Rain, sleet, snow, ice and even heavy traffic can be dangerous.
4. Dial numbers carefully and keep an eye on the traffic. Make your calls when you have stopped the car or before you set off. Plan your calls so that you can make them when parked. If it is essential to make a call

when driving, dial only part of the number, check the road again and look in the rear mirror and then dial the rest of the number.

5. Do not engage in stressful and emotional telephone calls which might take your attention away from the road. Let the other person know that you are driving a car and do not get involved in any discussions that might divert your attention from the road.
6. Use your mobile device to call for help if necessary. Dial emergency services (9-1-1 in the USA and 1-1-2 in Europe) or other local emergency service numbers if there is a fire, an accident or a medical emergency. These calls are free of charge on the wireless device! The call can be made independently of security codes or networks and with or without a SIM card.
7. Use your mobile device to call for help for other people in emergency situations. If you witness a serious accident, crime or other emergency, call the emergency service (9-1-1 in the USA and 1-1-2 in Europe) or another local emergency service number. Remember you yourself might need help the next time.
8. Call the breakdown service or a special mobile radio number for support when problems occur on the road. If you drive past a car with a breakdown which does not present any serious risk to traffic, a traffic light that is not functioning, a traffic accident with minor damage and without injured people, or a possibly stolen car, report it to the road patrol or another special mobile radio number for assistance.

“The wireless industry reminds you to use your device/phone safely when driving.”

Electromagnetic Fields

International

The device complies with internationally recognized 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.

Portable Devices

This device was tested for typical body-worn operation. Use only Zebra 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.

✓ **NOTE** The MC9500-NI must be switched off before it may be carried on the body.

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.

Warnings and Information about Wireless Devices

✓ **NOTE** The use of wireless devices might be forbidden or restricted. This applies above all when you are aboard aeroplanes, in hospitals, near explosives or in other dangerous conditions. If you are not sure which regulations apply to the use of the device, ask for permission before switching it on.

Country-Specific Roaming

This device has the International Roaming Function (IEEE802.11D), which ensures that the device uses the channels allocated to the respective country.

Ad-hoc Operation

Ad-hoc-operation is restricted to channels 36-48 (5150-5250 MHz). The use of this band is limited to indoor use only; outdoor use is not permissible.

FCC Requirements to Protect Against Radio-frequency Interference



This device was tested and it complies with the limits for a class B digital device according to part 15 of the FCC rules. These limit values were specified to ensure adequate protection from interference when the device is used in a residential area.

This device generates and uses radio frequency energy and can radiate it. If the device is not connected and used in accordance with the operating instructions, it can interfere with other radio frequencies. It is not possible to guarantee that there will not be any interference during a particular installation. If the device causes interference with radio or TV reception, which can be established by switching the devices off and on, the interference should be eliminated by one or more of the following measures:

- reorientation or repositioning of the receiving antenna
- increase in the distance between device and receiver
- connection of the device to a socket other than that to which the receiver is connected
- advice from the dealer or a radio/television technician.

Radio Communication Apparatus (Part 15)

This device satisfies the requirements of part 15 of the FCC rules. The operation of the device is subject to the following two conditions:

- the device must not cause harmful interference
- the device must accept all interference it receives, including interference which may cause undesired operation.

Requirements for Protection from Radio-frequency Interference – Canada

This class B digital device complies with the guidelines in the Canadian standard ICES-003.

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

Radio Transmitters

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

- The device must not cause harmful interference.
- The device must accept all received interference, including interference that may cause undesirable operation.

Label marking: "IC:" in front of the wireless certification indicates compliance with Industry Canada technical specifications.

Radio Transmitters for RLAN Devices

The use of 5 GHz RLAN's, for use in Canada, have the following restrictions:

- Restricted Band 5.60 - 5.65 GHz
- This device complies with RSS 210 of Industry & Science Canada. Operation is subject to the following two conditions:
 - (1) this device may not cause harmful interference and
 - (2) this device must accept any interference received, including interference that may cause undesired operation.

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

Country-specific Approvals

Test marks are put on the device to indicate that the wireless modules are approved for use in the following countries: USA, Canada and Europe¹.

You will find detailed information on the test marks for other countries in the EC Declaration of Conformity.

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

European Economic Area

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

- The 2.4 GHz devices must not exceed a radiating power of 100 mW EIRP in the frequency range between 2.400 and 2.4835 GHz.
- Outdoor usage in France is restricted to between 2.4 and 2.454 GHz.

- In Italy a user licence is required for outdoor use.

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 radiated power of 100 mW EIRP and must adhere to the frequency range between 2.400 and 2.4835 GHz.
- In France devices used outdoors are restricted to 10mW EIRP.
- In Italy a user licence is necessary for use outdoors.

Other Countries

- Mexico: devices must keep to the frequency range between 2.450 and 2.4835 GHz.
- Sri Lanka: devices must adhere to the frequency range between 2.400 and 2.430 GHz.

Warnings about the Use of Wireless Devices

Observe all warnings which refer to the use of wireless devices.

Safety in Aircraft

Switch off your wireless device whenever you are asked to do so by airport or airline staff. If your device offers a flight mode or similar function, ask the flight crew about its proper use.

Safety in Hospitals

Wireless devices radiate radio frequencies and can cause interference in electrical medical devices. If you are in a hospital, clinic or public health service, please turn off wireless devices if asked to do so. This is to prevent any interference with sensitive medical equipment.

Cardiac Pacemakers

The manufacturer recommends a minimum distance of 15 cm between a portable handheld wireless device and a Cardiac Pacemaker to avoid potential interference. This guideline is in accordance with independent research results and recommendations from Wireless Technology Research.

- People with implanted pacemakers
- People with implanted cardiac pacemakers should keep the switched-on device at a distance of at least 15 cm away from themselves ALWAYS.
- If you have a pacemaker, do not put the device into your breast pocket.
- The device should be held at the ear furthest away from the cardiac pacemaker.
- If you have reason to suspect interference, SWITCH OFF your device immediately.

Hearing Aids

The wireless device can cause interference with hearing aids. If there is any interference, contact the hearing aid manufacturer to ask about solutions.

- If you wear a hearing aid, do not put this device into your breast pocket.
- The device should be held at the ear furthest away from the cardiac pacemaker.
- If you have reason to suspect interference, SWITCH OFF your device immediately.

Other Medical Instruments

Consult your doctor or the manufacturer of the medical instrument to establish whether putting the wireless product into operation might interfere with the medical instrument.

Bluetooth

Products with Bluetooth® Wireless Technology

This device is a Bluetooth®-approved product.

More information can be found at <http://www.bluetooth.org/tpg/listings.cfm>

Manufacturer: Zebra --- Product: MC95xx

Operation

Before assembling the device, make sure you have the following:

- one MC9500-NI
- one Lithium-ion battery
- Strap assembly
- one Protective overlay on the display window
- one Stylus
- one User Guide.
- Special tool for battery release (only for ATEX Zone 2 and Zone 22)



CAUTION 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.

Getting Started

Perform the following steps before first use of the MC9500-NI:

1. Install a microSD card (optional)
2. Install the SIM card (only MC9596-NI)
3. Insert the battery
4. Charge the MC9500-NI.

Recommended Position

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

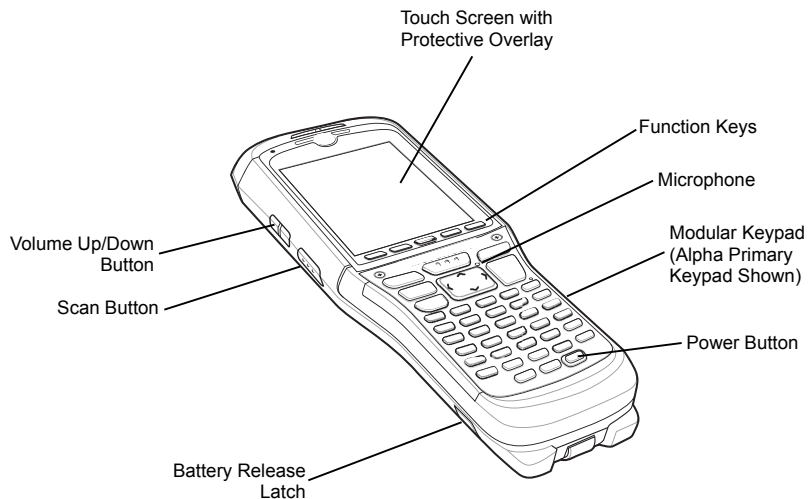


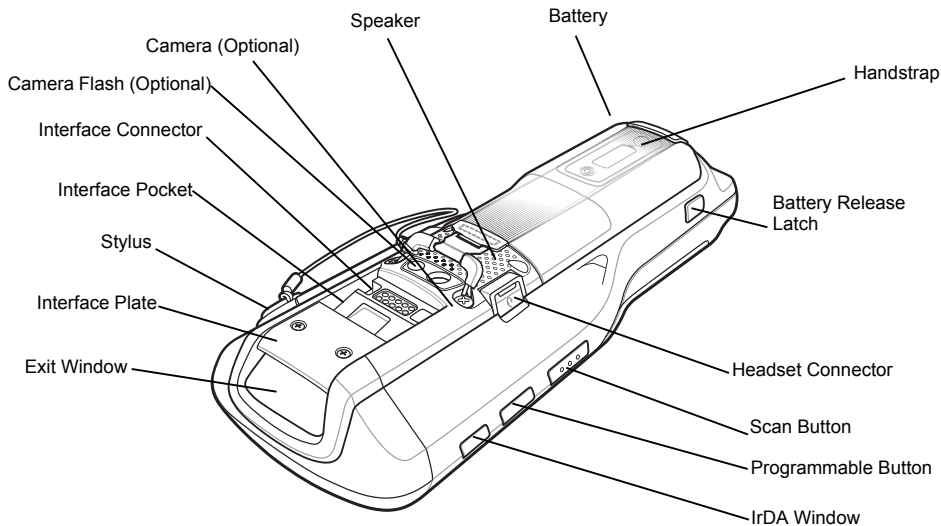
In this position the device cannot be protected against damage.



The display can be damaged by objects lying on the supporting surface.

Parts of the MC9500-NI





microSD card

CAUTION The micro SD card may only be installed and replaced outside of the hazardous area. Only micro SD cards tested by Zebra for that purpose may be used in the slot.

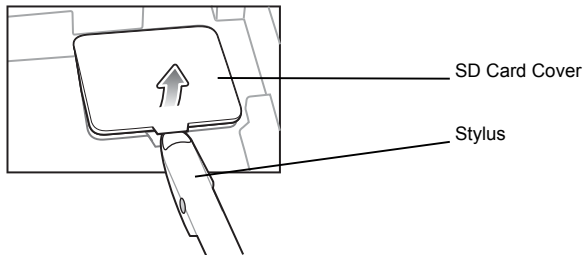
The microSD card slot provides secondary non-volatile storage. The slot is located under the battery. Refer to the documentation provided with the card for more information, and follow the manufacturer's recommendations for use.

CAUTION Follow proper ESD precautions to avoid damaging the micro SD card. Proper ESD precautions include, but are not limited to, working on an ESD mat and ensuring that the operator is properly grounded.

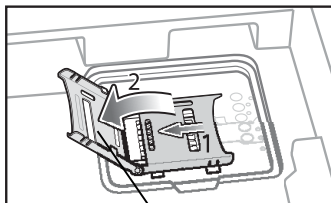
Installing a microSD Card

To install the microSD card:

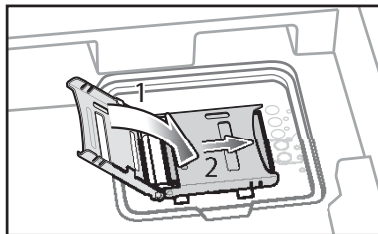
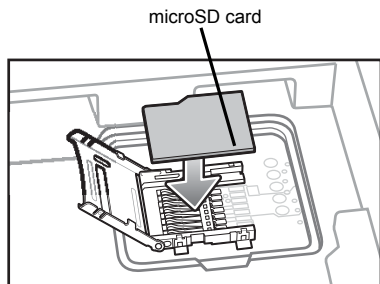
1. Remove the SD card cover using the end of the stylus.



2. Slide the microSD card holder door to the left to unlock.
3. Lift the microSD card holder door.



4. Place the microSD card onto the contacts.



5. Close the card holder door and slide to the right to lock into place.
6. Align the SD card cover over the access hole and press down until it snaps into place.

Removing the SIM Card

To remove an SIM card:



CAUTION Suspend the MC9500-NI prior to removing the battery. Failure to properly remove the battery may cause the MC9500-NI to cold boot and potential loss of data.



NOTE On devices with OEM version 01.19.11 and higher, a dialog box appears when pressing the Power button. See [Installing the Battery on page 30](#) for more information.

1. If the MC9500-NI is in suspend mode, press the red **Power** button to wake the device.
2. Press the red **Power** button to suspend the MC9500-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.

SIM Card



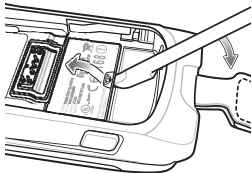
ATTENTION Only install and replace the SIM card outside of the hazardous area.

GSM telephone services require a SIM card (Subscriber Identification Module) or Chip Card. You can get these cards from your service provider. The card is inserted in the MC9500-NI and may contain the following information:

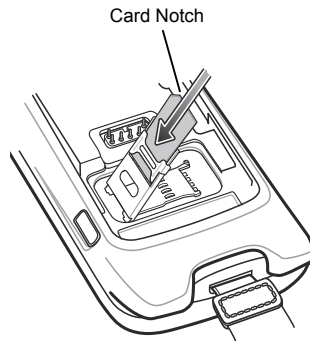
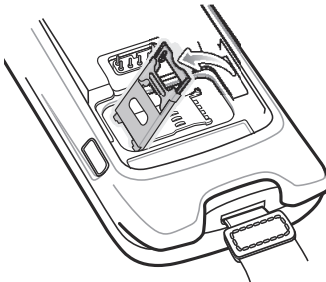
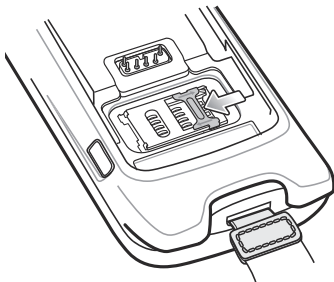
- Mobile telephone account details of the service provider.
- Information about the service settings and service access.
- Contact information, which can be shifted to the MC9500-NI into the “Contacts” area.
- Any other services you have subscribed.

To install the SIM card:

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



2. Slide the SIM card holder door to the left to unlock.
3. Lift the SIM card holder door.



4. Insert the SIM card into the holder door with the contacts facing down and the card notch facing up.
5. Close SIM card holder door and slide to the right to lock into place.
6. Align the SIM card cover over the access hole and press down until it snaps into place.
7. Install the battery.
8. After completing initial MC9596 setup or after replacing a SIM card:
 - a. Press the red **Power** button.
 - b. On the Today screen, tap **Wireless Manager**.
 - c. Ensure Phone is on.
 - d. Press the red **Power** button to suspend the MC9596.
 - e. Perform a warm boot. See [Resetting the MC9500-NI on page 47](#).
 - f. Make a call to verify cellular connection.



NOTE For detailed information about WWAN activation and settings, refer to the *MC9500-K Mobile Computer Integrator Guide*.

Removing the SIM Card

To remove an SIM card:



CAUTION Suspend the MC9500-NI prior to removing the battery. Failure to properly remove the battery may cause the MC9500-NI to cold boot and potential loss of data.



NOTE On devices with OEM version 01.19.11 and higher, a dialog box appears when pressing the Power button. See [Installing the Battery on page 30](#) for more information.

1. If the MC9500-NI is in suspend mode, press the red **Power** button to wake the device.
2. Press the red **Power** button to suspend the MC9500-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.

Battery

This chapter provides information on battery functionality, battery status indications, charging the MC9500-NI charging spare batteries and power saving techniques.



CAUTION 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. 82-111636-05 with 3.7 V/4800 mAh. 82-111636-04 with 3.7V/7020 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.

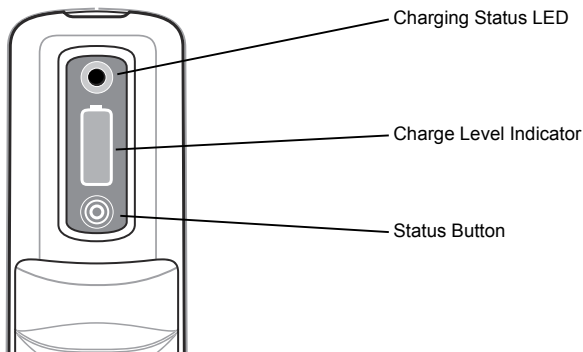
The temperature range for charging the battery is 0 °C to +40 °C. Please note that charging the MC9500-NI is under intelligent control.

For this purpose, the charging procedure of the MC9500-NI is activated and deactivated at short time intervals to keep the battery temperature within the permissible range. A LED on the MC9500-NI indicates when the charging procedure was disabled because of excess temperature.

Use only accessories approved by Zebra to charge the batteries.

How the Battery Works

The 4800 mAh battery type 82-111636-05 and the 7020 mAh battery type 82-111636-04 provide power to the MC9500-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.

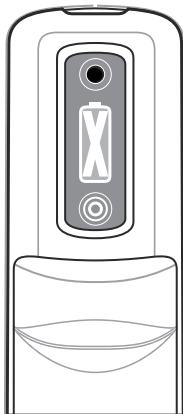
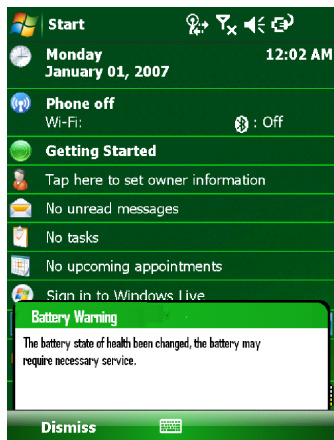
Battery Health

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

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

When the battery becomes unhealthy, a dialog box displays on the MC9500-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.

When charging an unhealthy battery in the MC9500-NI, the Battery Status LED blinks red.



Battery Status

The MC9500-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 MC9500-NI
- In a charger
- Stand-alone.

Installing the Battery



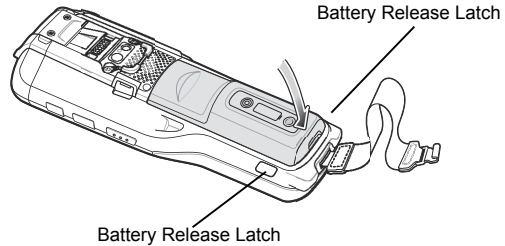
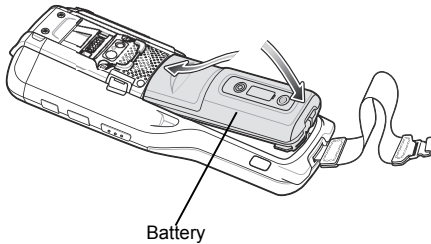
ATTENTION The battery may only be charged and changed outside the hazardous area.

It must be ensured that only original batteries of the following type/s are used in safety oriented operation. 82-111636-05 with 3.7 V/4800 mAh. 82-111636-04 with 3.7V/7020 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.

To install the battery:

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.



3. The MC9500-NI powers up automatically after inserting the battery, if the battery has been charged previously.

Replace the Battery



CAUTION 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. 82-111636-05 with 3.7 V/4800 mAh. 82-111636-04 with 3.7V/7020 mAh.

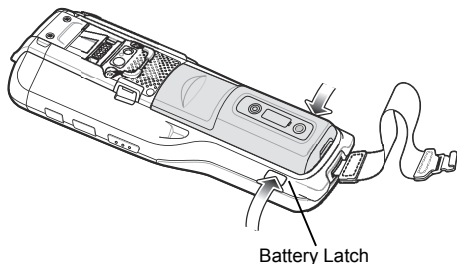
The use of imitation batteries or batteries from other manufacturers will render the type of ignition protection ineffective and there will then be a risk of fire or explosion.



ATTENTION Suspend the MC9500-NI prior to removing the battery. Failure to properly remove the battery may cause the MC9500-NI to cold boot and potential loss of data.

To replace the battery on MC9500-NI UL Class I, II III Division 2 devices:

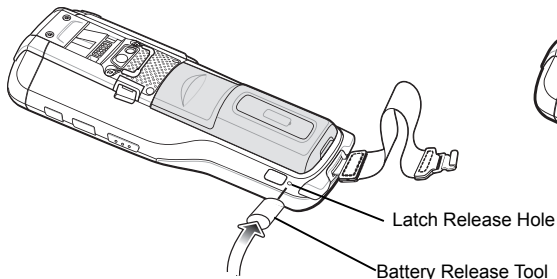
1. If the MC9500-NI is in suspend mode, press the red **Power** button to wake the device.
2. Press the red **Power** button to suspend the MC9500-NI.
3. Wait for red Decode LED to turn on and then turn off.
4. Unhook the handstrap.
5. Press the two battery release latches to release the battery. The battery ejects slightly.



6. Lift the battery from the MC9500-NI.
7. Insert the replacement battery, top first, into the battery compartment in the back of the MC9500-NI.
8. Press the battery down until the battery release latches snap into place. The MC9500-NI powers up after inserting the battery.

To replace the battery on MC9500-NI ATEX Zone 2 and Zone 22 devices:

1. If the MC9500-NI is in suspend mode, press the red **Power** button to wake the device.
2. Press the red **Power** button to suspend the MC9500-NI.
3. Wait for red Decode LED to turn on and then turn off.
4. Unhook the handstrap.
5. Insert the battery removal tool in to the two holes to release the battery latches to release the battery. The battery ejects slightly.



6. Lift the battery from the MC9500-NI.
7. Insert the replacement battery, top first, into the battery compartment in the back of the MC9500-NI.
8. Press the battery down until the battery release latches snap into place. The MC9500-NI powers up after inserting the battery.

Powering On the MC9500-NI

After the MC9500-NI is connected to power the splash screen displays for about a minute as the MC9500-NI initializes its flash file system, then the calibration window appears.

Calibrating the Screen

✓ **NOTE** 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 MC9500-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.

Charging the Battery



CAUTION The battery may only be charged and changed outside the hazardous area.

NOTE

✓ **NOTE** The temperature range for charging the battery is 0 °C to +40 °C. Please note that charging the MC9500-NI is under intelligent control.

For this purpose, the charging procedure of the MC9500-NI is activated and deactivated at short time intervals to keep the battery temperature within the permissible range. A LED on the MC9500-NI indicates when the charging procedure was disabled because of excess temperature.









Use only accessories approved by Zebra to charge the batteries.

Before using the MC9500-NI for the first time, charge the battery using either a charging cable or a cradle:

- USB Charging Cable
- Charge Only Cable
- Single Bay USB Cradle
- Four Bay Charge Only Cradle
- Four Bay Ethernet Cradle.

Align and hook the MC9500-NI interface pocket onto the cradle's or cable's cleat. The battery automatically begins charging. The 4800 mAh battery fully charges in less than six hours and the 7020 mAh battery fully charges in less than nine hours.

Table 2 Charging/Battery Status LED Indications

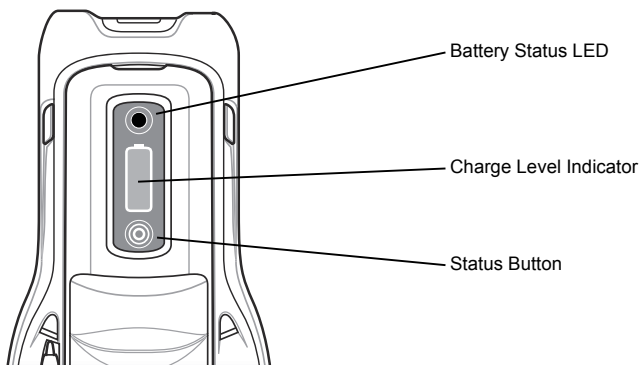
State	Healthy Battery	Unhealthy Battery
	MC9500-NI LED Status	MC9500-NI LED Status
None <ul style="list-style-type: none">• battery is not charging• MC9500-NI is not connected correctly to the cradle/cable or not connected to a power source.• cradle/cable is not powered.	Off 	Off 
Charging	Slow Blinking Amber (1 blink every 2 seconds) 	Slow Blinking Red (1 blink every 2 seconds) 
Fully Charged	Solid Green 	Solid Red 
Charging Error <ul style="list-style-type: none">• temperature is too low or too high.• charging has gone on too long without completion (typically eight hours for the 4800 mAh battery).	Fast Blinking Amber (2 blinks/second) 	Fast Blinking Amber (2 blinks/second) 

The MC9500-NI is equipped with a battery backup module, which is charged automatically when the main battery is fully charged. When the MC9500-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 MC9500-NI was removed. When the MC95-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. 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-NI User manual for integration of mobile computers.







Installed in an MC9500-NI

When the 4800 mAh battery, type 82-111636-05 or 7020 mAh battery, type 82-111636-04 is installed in the MC9500-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 MC9500-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 table below lists the Charge Level indications when the Status button is pressed.

Table 3 Charge Level Indicator

	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%.

✓ **NOTE** The battery front panel is not visible when the MC9500-NI 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 [Battery in MC9500-NI on page 36](#)).

Table 4 Battery in MC9500-NI









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	

Table 4 Battery in MC9500-NI

Action	State	Healthy Battery		Unhealthy Battery	
		Battery Status LED	Charge Level Indicator	Battery Status LED	Charge Level Indicator
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 MC9500-NI Power applet. Tap **Start > Settings > Power** icon > **BatteryMgmt** tab.

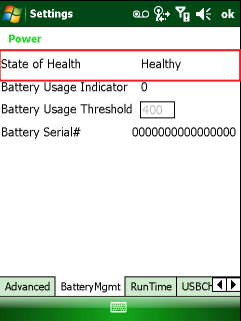


Table 5 BatteryMgmt Window

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

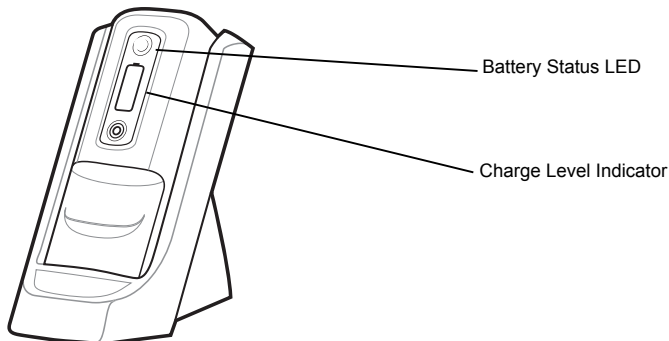
For information on changing the Battery Usage Threshold, refer to the *MC9500-K Mobile Computer Integrator Guide*.

In a Charger



CAUTION The battery may only be charged and changed outside the hazardous area.









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 [Stand-alone on page 40](#) for more information.



The Battery Status LED displays the current state of charging as described in [Table 6 on page 39](#). The Charge Level indicator displays the charge level of a healthy battery as described in [Table 3 on page 36](#).

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.





Table 6 *Battery Status in Charger*

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 <ul style="list-style-type: none">temperature is too low or too high.charging has gone on too long without completion (typically eight hours for the 4800 mAh battery).	Fast Blinking Amber (2 blinks/second)		Fast Blinking Amber (2 blinks/second)	

Stand-alone

When the battery is not installed in an MC9500-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 7 on page 40](#) for Battery Status LED and Charge Level indicator descriptions.


Table 7 *Battery Status - Stand-alone*

Action	Healthy Battery		Unhealthy Battery	
	Battery Status LED	Charge Level Indicator	Battery Status LED	Charge Level Indicator
No Action	Off		Off	
Button Press	Solid Green		Solid Red	

Keypad

Replacing Keypad

The MC9500-NI has interchangeable modular keypads.



CAUTION The keypad may only be changed outside the hazardous area.

It must be ensured that only original keypads are used in safety-oriented operation.

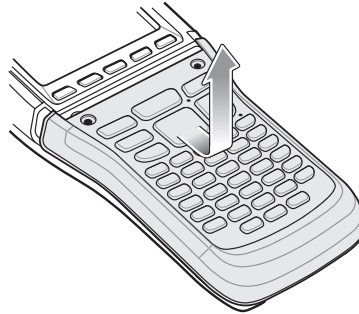
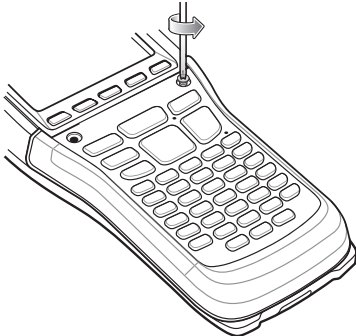
The use of imitation keypads from other manufacturers will render the type of ignition protection ineffective and there will then be a risk of fire or explosion.



ATTENTION Power off the MC9500-NI before start of change parts.

Put the MC9500-NI into suspend mode before you remove the battery. Failure to properly remove the battery may cause the MC9500-NI to cold boot and potential loss of data.

1. If the MC9500-NI is in suspend mode, press the Power button to wake the device. Wait for the MC9500-NI to fully awake from suspend mode.
2. Press the Power button to suspend the MC9500-NI.
3. Wait for red Decode LED to turn on and then turn off.
4. Un-hook the handstrap.
5. Remove the battery.
6. Remove and discard two screws securing the keypad to the housing.



7. Slide the keypad down toward the bottom of the device and then lift.
8. Align the new keypad with the housing.
9. Press the keypad down and then slide the keypad up.



10. Secure the keypad with two new screws provided with the keypad. Torque the screws to 2.5 kg-cm (0.18 ft-lbs.)

11. Replace the battery.

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

Screen Protector



CAUTION The screen protector may only be changed outside the hazardous area.

It must be ensured that only original screen protector used in safety-oriented operation.
Use only Zebra p/n KT-122010-01R.

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

Removing the Screen Protector

The MC9500-NI is provided with a screen protector. Zebra 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.

Lift Screen
Protector Corner



 **ATTENTION** Do not use a sharp object to remove the protector. Doing so can damage the display.

✓ **NOTE** Not using a screen protector can affect warranty coverage. To purchase replacement protectors, contact your local account manager or Zebra. These include screen protector installation instructions. Part number: KT-122010-01R Screen Protector 3/pk.

Connection to the PC

The MC9500-NI series is delivered with a Microsoft Windows Mobile 6.5 operating system. Microsoft supplies software free of charge to establish a connection to a PC for synchronization, installation and data exchange.

Active Sync

✓ **NOTE** 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 synchronizes 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 Microsoft ActiveSync program is used for synchronizing or installing software and data. ActiveSync is available for downloading as freeware at www.microsoft.com.

Supported Operating Systems:

- Windows XP

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

Further information on ActiveSync can be found in the Zebra integrator Guide or on the Microsoft home page.

Microsoft Mobile Device Center

✓ **NOTE** 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 synchronizes 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 synchronization.

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

Supported Operating Systems:

- Windows Vista or Windows 7

For system requirements see Device Center on the Microsoft home page.

Further information on Device Center can be found in the Zebra integrator Guide or on the Microsoft home page.

Operation

The operator of an electrical system in a hazardous environment must keep the operating equipment in an orderly condition, operate it correctly, monitor it and do the required maintenance and repairs.

Before operating the MC9500-NI, check that all components and documents are there.

The following conditions must be met before operating the device:

- Check the MC9500-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 charged and insert in the MC9500-NI.
- Close the battery.
- Check when use a screen protector that it is a certificated one.

Troubleshooting



CAUTION If you have any problems with the MC9500-NI, bring the device into a safe area first before you try to remedy the fault.

Notes on Troubleshooting can be found in the *MC9500-K Mobile Computer User Guide* or *MC9500-K Mobile Computer Integrator Guide on Support Central*.

If you have problems with your device, please contact Zebra.

Energy Saving Options

Observe the following battery saving tips:

- Leave the MC9500-NI connected to AC power at all times when not in use.
- Set the MC9500-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.

Changing the Power Settings

To set the MC9500-NI to turn off after a short period of non-use:

1. Tap **Start > Settings > System > 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**.

Changing the Backlight Settings

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

1. Tap **Start > Settings > System > 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**.

Changing the Keypad Backlight Settings

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

1. Tap **Start > Settings > System > 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 backlight** check box to turn off the keypad backlight.
5. Select **ok**.

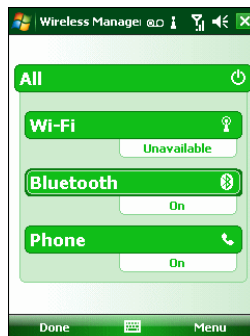
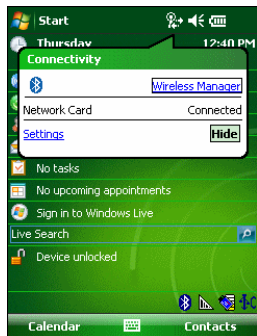
Changing the Settings for the Display Backlight

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

1. Tap on **Start > Settings > System > Backlight > Battery Power**.
2. Activate the control box **Disable backlight if device is not used for**, and select a value from the drop-down list.
3. Select the **Brightness** tab.
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**.

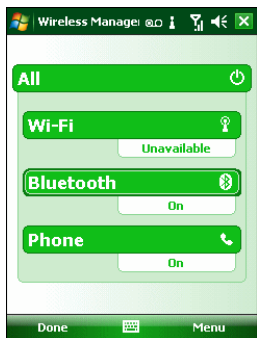
Turning Off the Radios

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.



✓ **NOTE** 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**.



Resetting the MC9500-NI

There are two resetting functions: Warm boot and cold boot. In the case of a warm boot the MC9500-NI is restarted by closing all executed programs. In the case of a cold boot, the MC9500-NI is also restarted and, in addition, some drivers initialized. Data stored in a flash memory or on a memory card are not lost.

Carry out a warm boot first if the MC9500-NI does not function properly. If the MC9500-NI still doesn't respond, carry out a cold boot.

Warm boot

To perform a warm boot:

Press the red power switch (Power) for about five seconds. Release the power switch (Power) as soon as the MC9500-NI begins with the start procedure.

Cold boot

To perform a cold boot:

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

Maintenance, Inspection, Repair

This chapter describes cleaning and storing the MC9500-NI, as well as possible procedures when problems occur while using the MC9500-NI.



CAUTION When doing maintenance or servicing or when checking associated equipment, comply with the applicable regulations in accordance with directives IEC 60079-19 and IEC 60079-17. Installation/dismantling, operating and maintenance work may be carried out by trained specialists only. Statutory regulations and other binding directives on workplace safety, accident prevention and environmental protection must be adhered to.

You should heed the following tips when using the MC9500-NI to guarantee fault-free operation:

- Pay attention that the MC9500-NI display is not scratched. When working with the MC9500-NI use the supplied input pen or pens with plastic tip which are designed for use with touch screens. Never use a ballpoint pen, pencils or other pointed items on the MC9500-NI screen. Zebra recommends using a screen protector, Part no. KT-122210-01R.
- The MC9500-NI touch screen is made of polycarbonate. Please make sure that the MC9500-NI is not dropped or subjected to hard knocks.
- Protect the MC9500-NI against extreme temperatures. Do not leave it on the dashboard of the car on hot days and keep it away from heat sources.
- Do not store the MC9500-NI in dusty, moist or wet environments.
- Use a soft spectacle cleaning cloth to clean the MC9500-NI. If the MC9500-NI display surface is dirty, clean it with a soft spectacle cleaning cloth soaked in diluted window cleaner.
- Change the re-chargeable battery regularly to ensure maximum battery life and equipment performance. Battery life depends on the individual usage pattern. The battery provides a state display to estimate the remaining life. You can find further information in [Battery on page 28](#).
- Pay attention that the scan window is not scratched. Clean the window regularly.

- Dust, contaminants and scratches on the scan window can lead to visible spots on the pictures taken with the scanner.
- The battery should be completely charged before it is used for the first time. Note that the maximum capacity of the battery is not attained until after approx. 5-6 charging and discharging cycles.
- The MC9500-NI is equipped with a screen protector. Zebra recommends using this, to avoid wear marks. A screen protector contributes to the user friendliness of the equipment and protects the touch screen. The advantages at a glance:
 - Protection against scratches and dents
 - Resistant and non-slip writing and touch screen surface
 - Protection against abrasion and chemicals
 - Reflection reduction
 - Equipment screen always looks brand new
 - Simple and quick installation.
- As the battery power diminishes over the course of time, the batteries should be completely discharged and recharged every now and then in order to retain the full capacity. For that purpose the devices are left switched on until the devices switch off themselves. Then recharge the battery completely outside the Ex area.
- Before a lengthy idle time it is essential to charge the battery completely and to recharge it regularly (every 3 months).

Servicing



CAUTION In accordance with IEC 60079-19 and IEC 60079-17, the owner-operator of the electrical installations in potentially explosive areas has an obligation to have these installations checked by a qualified electrician to ensure that they are in a proper condition.

Inspection



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

Please direct any questions you may have to Zebra.

Cleaning



WARNING! Avoid exposing this product to contact with hot oil or other flammable liquids. If such exposure occurs, unplug the device and clean the product immediately in accordance with these guidelines.



CAUTION Always wear eye protection.

Read warning label on compressed air and alcohol product before using.

If you have to use any other solution for medical reasons please contact Zebra for more information.

Take the device out of the hazardous area before cleaning.

Materials Required

- Alcohol wipes
- Lens tissue
- Cotton tipped applicators
- Isopropyl alcohol
- Can of compressed air with a tube.

Cleaning the MC9500-NI

Housing

Using the alcohol wipes, wipe the housing including keys and in-between keys.

Display

The display can be wiped down with the alcohol wipes, but care should be taken not to allow any pooling of liquid around the edges of the display. Immediately dried the display with a soft, non-abrasive cloth to prevent streaking.


Scanner Exit Window

Wipe the scanner exit window periodically with a lens tissue or other material suitable for cleaning optical material such as eyeglasses.

Connector

1. Remove the main battery from mobile computer. See [Replace the Battery on page 31](#).
2. Close battery door.
3. Dip the cotton portion of the cotton tipped applicator in isopropyl alcohol.
4. Rub the cotton portion of the cotton tipped applicator back-and-forth across the connector on the bottom of the MC9500-NI. Do not leave any cotton residue on the connector.
5. Repeat at least three times.
6. Use the cotton tipped applicator dipped in alcohol to remove any grease and dirt near the connector area.


7. Use a dry cotton tipped applicator and repeat steps 4 through 6.

 **CAUTION** Do not point nozzle at yourself and others, ensure the nozzle or tube is away from your face.

8. Spray compressed air on the connector area by pointing the tube/nozzle about ½ inch away from the surface.
9. Inspect the area for any grease or dirt, repeat if required.

Battery Contacts

1. Remove the battery from the MC9500-NI. See [Replace the Battery on page 31](#).
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 about 15 mm above the surface.


 **CAUTION** Do not point nozzle at yourself and others, ensure the nozzle or tube is away from your face.

8. Check the area for grease and dirt residue and repeat the cleaning procedure if necessary.
9. Insert the battery in the MC9500-NI.

Cleaning Cradle Connectors

To clean the connectors on a cradle:

1. Remove the DC power cable from the cradle.
2. Dip the cotton portion of the cotton tipped applicator in isopropyl alcohol.
3. Rub the cotton portion of the cotton tipped applicator along the pins of the connector. Slowly move the applicator back-and-forth from one side of the connector to the other. Do not let any cotton residue on the connector.
4. All sides of the connector should also be rubbed with the cotton tipped applicator.

 **CAUTION** Do not point nozzle at yourself and others, ensure the nozzle or tube is away from your face.

5. Spray compressed air in the connector area by pointing the tube/nozzle about ½ inch away from the surface.

6. Ensure that there is no lint left by the cotton tipped applicator, remove lint if found.
7. If grease and other dirt can be found on other areas of the cradle, use lint free cloth and alcohol to remove.
8. Allow at least 10 to 30 minutes (depending on ambient temperature and humidity) for the alcohol to air dry before applying power to cradle.
9. If the temperature is low and humidity is high, longer drying time is required. Warm temperature and dry humidity requires less drying time.

Cleaning Frequency

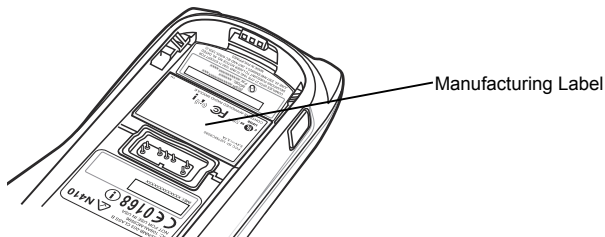
The cleaning frequency is up to the customer's discretion due to the varied environments in which the mobile devices are used. They may be cleaned as frequently as required. However when used in dirty environments it may be advisable to periodically clean the scanner exit window to ensure optimum scanning performance.

Service Information

If you have a problem with your equipment, contact Zebra support for your region. Contact information is available at: <http://www.zebra.com/support>.

When contacting support, please have the following information available:

- Serial number of the unit (found on manufacturing label)
- Model number or product name (found on manufacturing label)
- Software type and version number.



Zebra responds to calls by email, telephone or fax within the time limits set forth in support agreements.

If your problem cannot be solved by Zebra Support, you may need to return your equipment for servicing and will be given specific directions. Zebra is not responsible for any damages incurred during shipment if the approved shipping container is not used. Shipping the units improperly can possibly void the warranty.

If you purchased your business product from a Zebra business partner, contact that business partner for support.

Disposal

The component of the mobile computer contains metal, plastic parts and electronic components.

The statutory requirements for electrical scrap must be observed therefore (e.g. disposal by an approved disposal company).

Dispatch and Packaging Instructions

Important information regarding transport and dispatch.

! Sensitive Devices!

It is absolutely necessary to deliver the equipment in the original packaging in order to avoid damage to the equipment.



Waste Electrical and Electronic Equipment (WEEE)

English: For EU Customers: All products at the end of their life must be returned to Zebra for recycling. For information on how to return product, please go to: <http://www.zebra.com/weee>.

Français: Clients de l'Union Européenne: Tous les produits en fin de cycle de vie doivent être retournés à Zebra pour recyclage. Pour de plus amples informations sur le retour de produits, consultez : <http://www.zebra.com/weee>.

Español: Para clientes en la Unión Europea: todos los productos deberán entregarse a Zebra al final de su ciclo de vida para que sean reciclados. Si desea más información sobre cómo devolver un producto, visite: <http://www.zebra.com/weee>.

Bulgarian: За клиенти от ЕС: След края на полезния им живот всички продукти трябва да се връщат на Zebra за рециклиране. За информация относно връщането на продукти, моля отидете на адрес: <http://www.zebra.com/weee>.

Deutsch: Für Kunden innerhalb der EU: Alle Produkte müssen am Ende ihrer Lebensdauer zum Recycling an Zebra zurückgesandt werden. Informationen zur Rücksendung von Produkten finden Sie unter <http://www.zebra.com/weee>.

Italiano: per i clienti dell'UE: tutti i prodotti che sono giunti al termine del rispettivo ciclo di vita devono essere restituiti a Zebra al fine di consentirne il riciclaggio. Per informazioni sulle modalità di restituzione, visitare il seguente sito Web: <http://www.zebra.com/weee>.

Português: Para clientes da UE: todos os produtos no fim de vida devem ser devolvidos à Zebra para reciclagem. Para obter informações sobre como devolver o produto, visite: <http://www.zebra.com/weee>.

Nederlands: Voor klanten in de EU: alle producten dienen aan het einde van hun levensduur naar Zebra te worden teruggezonden voor recycling. Raadpleeg <http://www.zebra.com/weee> voor meer informatie over het terugzenden van producten.

Polski: Klienci z obszaru Unii Europejskiej: Produkty wycofane z eksploatacji należy zwrócić do firmy Zebra w celu ich utylizacji. Informacje na temat zwrotu produktów znajdują się na stronie internetowej <http://www.zebra.com/weee>.

Čeština: Pro zákazníky z EU: Všechny produkty je nutné po skončení jejich životnosti vrátit společnosti Zebra k recyklaci. Informace o způsobu vrácení produktu najdete na webových stránkách: <http://www.zebra.com/weee>.

Eesti: EL klientidele: kõik tooted tuleb nende eluea lõppedes tagastada taaskasutamise eesmärgil Zebra'ile. Lisainformatsiooni saamiseks toote tagastamise kohta külastage palun aadressi: <http://www.zebra.com/weee>.

Magyar: Az EU-ban vásárlóknak: Minden tönkrement terméket a Zebra vállalatához kell eljuttatni újrahasznosítás céljából. A termék visszajuttatásának módjával kapcsolatos tudnivalókról látogasson el a <http://www.zebra.com/weee> weboldalra.

Slovenski: Za kupce v EU: vsi izdelki se morajo po poteku življenjske dobe vrniti podjetju Zebra za reciklažo. Za informacije o vračilu izdelka obiščite: <http://www.zebra.com/weee>.

Svenska: För kunder inom EU: Alla produkter som uppnått sin livslängd måste returneras till Zebra för återvinning. Information om hur du returnerar produkten finns på <http://www.zebra.com/weee>.

Suomi: Asiakaat Euroopan unionin alueella: Kaikki tuotteet on palautettava kierrätettäväksi Zebra-yhtiöön, kun tuotetta ei enää käytetä. Lisätietoja tuotteen palauttamisesta on osoitteessa <http://www.zebra.com/weee>.

Dansk: Til kunder i EU: Alle produkter skal returneres til Zebra til recirkulering, når de er udtjent. Læs oplysningerne om returnering af produkter på: <http://www.zebra.com/weee>.

Ελληνικά: Για πελάτες στην Ε.Ε.: Όλα τα προϊόντα, στο τέλος της διάρκειας ζωής τους, πρέπει να επιστρέφονται στην Zebra για ανακύκλωση. Για περισσότερες πληροφορίες σχετικά με την επιστροφή ενός προϊόντος, επισκεφθείτε τη διεύθυνση <http://www.zebra.com/weee> στο Διαδίκτυο.

Malti: Għal klijenti fl-EU: il-prodotti kollha li jkunu waslu fl-aħħar tal-hajja ta' l-użu tagħhom, iridu jiġu ritornati għand Zebra għar-riċiklaġġ. Għal aktar tagħrif dwar kif għandek tirritorna l-prodott, jekk jogħġbok żur: <http://www.zebra.com/weee>.

Românesc: Pentru clienții din UE: Toate produsele, la sfârșitul duratei lor de funcționare, trebuie returnate la Zebra pentru reciclare. Pentru informații despre returnarea produsului, accesați: <http://www.zebra.com/weee>.

Slovenski: Za kupce v EU: vsi izdelki se morajo po poteku življenjske dobe vrniti podjetju Zebra za reciklažo. Za informacije o vračilu izdelka obiščite: <http://www.zebra.com/weee>.

Slovenčina: Pre zákazníkov z krajín EU: Všetky výrobky musia byť po uplynutí doby ich životnosti vrátené spoločnosti Zebra na recykláciu. Blížšie informácie o vrátení výrobkov nájdete na: <http://www.zebra.com/weee>.

Lietuvių: ES vartotojams: visi gaminiai, pasibaigus jų eksploatacijos laikui, turi būti grąžinti utilizuoti į kompaniją „Zebra“. Daugiau informacijos, kaip grąžinti gaminį, rasite: <http://www.zebra.com/weee>.

Latviešu: ES klientiem: visi produkti pēc to kalpošanas mūža beigām ir jānogādā atpakaļ Zebra otrreizējai pārstrādei. Lai iegūtu informāciju par produktu nogādāšanu Zebra, lūdz, skatiet: <http://www.zebra.com/weee>.

Türkçe: AB Müşterileri için: Kullanım süresi dolan tüm ürünler geri dönüştürme için Zebra'ya iade edilmelidir. Ürünlerin nasıl iade edileceği hakkında bilgi için lütfen şu adresi ziyaret edin: <http://www.zebra.com/weee>.

TRUKISH WEEE Statement of Compliance

EEE Yönetmeliğine Uygundur

END-USER LICENSE AGREEMENT

These license terms are an agreement between you and Symbol Technologies, Inc. ("Company"). Please read them. They apply to the software included on this device. The software also includes any separate media on which you received the software.

The software on this device includes software licensed by Company from Microsoft Corporation or its affiliate.

The terms also apply to any:

- updates,
- supplements,
- Internet-based services, and
- support services

for this software, unless other terms accompany those items. If so, those terms apply.

As described below, using some features also operates as your consent to the transmission of certain standard computer information for Internet-based services.

By using the software, including use on this device, you accept these terms. If you do not accept them, do not use the device or software. Instead, contact Company to determine its return policy for a refund or credit.

WARNING: If the software contains voice operated technologies, then operating this software requires user attention. Diverting attention away from the road while driving can possibly cause an accident or other serious consequence. Even occasional, short diversions of attention can be dangerous if your attention is diverted away from your driving task at a critical time. Company and Microsoft make no representations, warranties or other determinations that ANY use of this software is legal, safe, or in any manner recommended or intended while driving or otherwise operating a motor vehicle.

If you comply with these license terms, you have the rights below.

1. USE RIGHTS.

You may use the software on the device with which you acquired the software.

2. ADDITIONAL LICENSING REQUIREMENTS AND/OR USE RIGHTS.

- a. **Specific Use.** Company designed this device for a specific use. You may only use the software for that use.

- b. **Included Microsoft Programs and Additional Required Licenses.** Except as provided below, these license terms apply to all Microsoft programs included with the software. If the license terms with any of those programs give you other rights that do not expressly conflict with these license terms, you also have those rights.
 - i. This agreement does not grant you any rights with respect to the Windows Mobile Device Center, Microsoft ActiveSync or Microsoft Outlook 2007 Trial which are subject to the licenses accompanying those items.
- c. **Speech Recognition.** If the software includes speech recognition component(s), you understand that speech recognition is an inherently statistical process and that recognition errors are inherent in the process. Neither Company nor Microsoft or their suppliers shall be liable for any damages arising out of errors in the speech recognition process.
- d. **Phone Functionality.** If the device software includes phone functionality, all or certain portions of the device software may be inoperable if you do not have and maintain a service account with a wireless telecommunication carrier ("Mobile Operator"), or if the Mobile Operator's network is not operating or configured to operate with the device.

3. SCOPE OF LICENSE. The software is licensed, not sold. This agreement only gives you some rights to use the software. Company and Microsoft reserve all other rights. Unless applicable law gives you more rights despite this limitation, you may use the software only as expressly permitted in this agreement. In doing so, you must comply with any technical limitations in the software that allow you to use it only in certain ways. You may not:

- work around any technical limitations in the software;
- reverse engineer, decompile or disassemble the software;
- make more copies of the software than specified in this agreement;
- publish the software for others to copy;
- rent, lease or lend the software; or
- use the software for commercial software hosting services.

Except as expressly provided in this agreement, rights to access the software on this device do not give you any right to implement Microsoft patents or other Microsoft intellectual property in software or devices that access this device.

You may use remote access technologies in the software such as Remote Desktop Mobile to access the software remotely from a computer or server. You are responsible for obtaining any licenses required for use of the protocols to access other software.

4. INTERNET-BASED SERVICES. Microsoft provides Internet-based services with the software. Microsoft may change or cancel them at any time.

- a. **Consent for Internet-Based Services.** The software features described below connect to Microsoft or service provider computer systems over the Internet. In some cases, you will not receive a separate notice when they connect. You may switch off some of these features or not use them. For more information about these features, visit <http://go.microsoft.com/fwlink/?LinkId=81931>.

By using these features, you consent to the transmission of this information. Microsoft does not use the information to identify or contact you.

Device Information. The following features use Internet protocols, which send to the appropriate systems device information, such as your Internet protocol address, the type of operating system, browser and name and version of the software you are using, and the language code of the device where you installed the software. Microsoft uses this information to make the Internet-based services available to you.

- **Windows Mobile Update Feature.** The Windows Mobile Update feature provides you the ability to obtain and install software updates on your device if updates are available. You may choose not to use this feature. Company and/or your Mobile Operator may not support this feature or an update for your device.
- **Windows Media Digital Rights Management.** Content owners use Windows Media digital rights management technology (WMDRM) to protect their intellectual property, including copyrights. This software and third party software use WMDRM to play and copy WMDRM-protected content. If the software fails to protect the content, content owners may ask Microsoft to revoke the software's ability to use WMDRM to play or copy protected content. Revocation does not affect other content. When you download licenses for protected content, you agree that Microsoft may include a revocation list with the licenses. Content owners may require you to upgrade WMDRM to access their content. Microsoft software that includes WMDRM will ask for your consent prior to the upgrade. If you decline an upgrade, you will not be able to access content that requires the upgrade.

- b. **Misuse of Internet-based Services.** You may not use these services in any way that could harm them or impair anyone else's use of them. You may not use the services to try to gain unauthorized access to any service, data, account or network by any means.

5. NOTICES ABOUT THE MPEG-4 VISUAL STANDARD. The software may include MPEG-4 visual decoding technology. This technology is a format for data compression of video information. MPEG LA, L.L.C. requires this notice:

USE OF THIS PRODUCT IN ANY MANNER THAT COMPLIES WITH THE MPEG-4 VISUAL STANDARD IS PROHIBITED, EXCEPT FOR USE DIRECTLY RELATED TO (A) DATA OR INFORMATION (i) GENERATED BY AND OBTAINED WITHOUT CHARGE FROM A CONSUMER NOT THEREBY ENGAGED IN A BUSINESS ENTERPRISE, AND (ii) FOR PERSONAL USE ONLY; AND (B) OTHER USES SPECIFICALLY AND SEPARATELY LICENSED BY MPEG LA, L.L.C.

If you have questions about the MPEG-4 visual standard, please contact MPEG LA, L.L.C., 250 Steele Street, Suite 300, Denver, CO 80206; www.mpegla.com.

6. DIGITAL CERTIFICATES. The software uses digital certificates in X.509 format. These digital certificates are used for authentication.

7. CONNECTIVITY SOFTWARE. Your device package may include Windows Mobile Device Center or Microsoft ActiveSync software. If it is included, then you may install and use it in accordance with the license terms that are provided with it. If no license terms are provided, then you may install and use only one (1) copy of the software on a single computer.

8. NETWORK ACCESS. If you are using a network, such as an employer network, the network administrator may limit features or functionality on your device.

9. PRODUCT SUPPORT. Contact Company for support options. Refer to the support number provided with the device.

10. LINKS TO THIRD PARTY WEBSITES. If the software provides links to third party websites, those links are provided to you only as a convenience, and the inclusion of any link does not imply an endorsement of the third party website by Microsoft.

11. BACKUP COPY. You may make one backup copy of the software. You may use it only to reinstall the software on the device.

12. PROOF OF LICENSE. If you acquired the software on the device, or on a disc or other media, a genuine Certificate of Authenticity label with a genuine copy of the software identifies licensed software. To be valid, this label must be affixed to the device, or included on or in Company's software packaging. If you receive the label separately, it is not valid. You should keep the label on the device or packaging to prove that you are licensed to use the software. To identify genuine Microsoft software, see <http://www.howtotell.com>.

13. TRANSFER TO A THIRD PARTY. You may transfer the software only with the device, the Certificate of Authenticity label, and these license terms directly to a third party. Before the transfer, that party must agree that these license terms apply to the transfer and use of the software. You may not retain any copies of the software including the backup copy.

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