

# MC75A-NI FOR UL CLASS I, II, III / DIVISION 2 USER GUIDE



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## 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](http://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](mailto: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 operation. 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, operation 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 MC75A-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 operation. In the event of information overlap, the information in this guide supersedes other guides.

## Documentation Set

The documentation set for the MC75A provides information corresponding with the respective user requirements and comprises:

- **MC75A Quick Start Guide** - This user guide describes the operation of the mobile computer MC75A.
- **MC75A Enterprise Digital Assistant User Guide** - This user guide describes the use of the MC75A mobile computer series.
- **MC75A Enterprise Digital Assistant Integrator Guide** - This user guide describes the setup of the MC75A 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 MC75A-NI for UL Class I, II, III / Division 2 is a 3G Worldwide Enterprise Digital Assistant (EDA) device for use in the hazardous areas UL 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 an optional 3.2-megapixels camera are available as other data capture options. The ergonomically mounted scan buttons on the MC75A-NI allow data to be captured easily in one-hand operation.

Several technologies are available for data communication with other systems:

- Wireless 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 3.5" VGA color display with touch technology and high-performance lithium-ion battery.

Fast process execution is ensured by the Intel® XScale™ PXA320 processor with 806 MHz, which is integrated in the MC75A-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).

256 MB RAM integrated in the device and 1 GB flash are available for storing user-defined applications and data. For larger applications and volumes of data, Zebra offers SD memory cards, which can be inserted under the battery.

## Use

The Enterprise Digital Assistant MC75A-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 MC75A-NI, series has been modified for use in the hazardous area of:

- UL Class I Division 2 Groups A, B, C and D
- UL Class II Division 2 Groups F and G
- UL Class III

The MC75A-NI may not be used in locations of:

- UL Class I Division 1
- UL Class II Division 1.

Technical Data

Type	Description
Explosion Protection	
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	-10 °C ≤ Ta ≤ +50 °C
Certification	UL File E321557
Standards	ISA12.12.01 1 <sup>st</sup> Edition UL 60950-1 1 <sup>st</sup> Edition C22.2 No. 213-M1987 C22.2 No. 60950-1-03 1 <sup>st</sup> Edition
Characteristics	
Dimensions (height x width x depth)	approx. 15.24 cm x 8.4 cm x 4.4 cm (6.0 inch x 3 in. x 1.7 in.)
Weight including battery	approx. 450 to 500 g (15.87 to 17.64 oz) depending on the version and configuration
Display	3.5 inch ¼ VGA color display Backlighting with LED technology 640 x 480 pixels
Touchscreen	Glass analog resistive touchscreen
Keyboard variants	26 keys numerical 44 keys QWERTY (English) 44 keys AZERTY (French) 44 keys QWERTZ (German)
Audio	Speaker, receiver, microphone, headset jack, software support for full-duplex recording and playback (stereo)
Network connections	Ethernet (via charging station); full speed USB, host or client
Interfaces	RS232, USB 1.1
Signalling	Vibration function and LED
Performance Features	
Processor	Marvell PXA320 processor at 806 MHz

Type	Description
Operating system	Windows Mobile 6.5 Classic or Professional
Memory	256 MB RAM/1 GB Flash
Expansion slot	microSD slot with SDHC support
Optional extension with microSD card	1 GB Order number 17-C1Z0-0007 2 GB Order number 17-C1Z0-0008

#### User Environment

Ambient temperature	-10 °C to +50 °C (14 °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 +60 °C (-40 °F to 140 °F) outside the hazardous area
Air humidity	5% to 95% (non-condensing)
Protection class (EN 60529)	IP 54

#### 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.

#### Voice and Data Transmission Wireless WAN

GSM	HSDPA and EVDO Rev. A
GPS	Integrated Assisted GPS (A-GPS)
Antenna	On the exterior of 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

Type	Description
Radio channels IEEE802.11a IEEE802.11b/g	Channel 8 - 165 (5040 MHz - 5825 MHz) Channel 1 - 13 (2412 MHz - 2472 MHz)
Safety	WPA2, incoming inspection (40 or 128 bits), TKIP, TLS, TTLS (MS-CHAP), TTLS (MS-CHAP. 2), TTLS (CHAP), TTLS-MD5, TTLS PAP, PEAP TLS, PEAP (MS-CHAP v2), AES, LEAP
Spreading procedure	Direct Sequence Spread Spectrum (DSSS) and Orthogonal Frequency Multiplexing Process (OFDM)
Voice communication	Voice-over-IP integrated and prepared (P2P, PBX, PTT), Wi-Fi™ certification and IEEE 802.11 a/b/g Direct Sequence Wireless LAN
Antenna	integrated in the device
<b>Voice and Data Transmission Wireless PAN</b>	
Bluetooth	Class 2. Version 2.0
Maximum data rate	Up to 2.1 Mbit/s
Antenna	Integrated in the device
Options for Data Capture	
Four possible configurations	SE950      1D Standard Range Scan Engine SE4400      1D/2D Imager Engine SE950      1D Standard Range Scan Engine and camera SE4400      1D/2D Imager Engine and camera
<b>Color Camera</b>	
Resolution	3.2 megapixels
Exposure	Flash (can be controlled by the user)
Objective	Auto focus
<b>SE950 1D Standard Range Scan Engine</b>	
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

Type	Description
Ambient light immunity	107,640 lux
Scan rate	104 (± 12) scans/sec. (bi-directional)
Scan angle	47° ± 3 ° standard 35° ± 3° reduces
<b>SE4400 1D/2D Imager Engine</b>	
Reading range	approx. 6 cm to 50 cm (2.3 inc. to 19 in.)
Resolution	640 x 480 pixels HxV (grey tone)
Roll	360°
Pitch angle	± 60° from normal
Skew tolerance	± 50° from normal
Ambient light	Absolute darkness to 96,000 lux
Aiming element (VLD)	650 Nm ± 5 Nm
Illumination element (LED)	635 Nm ± 20 Nm
Field of view	Horizontal 32.2 ° Vertical 24.5°
<b>Decodable Bar Code Types</b>	
Laser Decode Capability MC75A-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, RSS-14, RSS Limited, RSS Expanded, Chinese 2 of 5
Imaging Decode Capability MC75A-NI with SE4400 1D/2D Imager Engine	TLC39, Composite AB, Chinese 2 of 5, Micro PDF-417, Macro PDF-417, (Macro) Micro PDF-417, QR Code, Data Matrix, microQR, US Postnet, US Planet, UK 4-state, Australian 4-state, Canadian 4-state, Japanese 4-state, Dutch Kix, USPS 4-state (US4CB), Aztec
<b>Technical Data Battery</b>	
Battery (rechargeable only in the safe area) Type 82-71364-05NI Type 82-71364-06NI	Lithium ions 3.7 V/3600 mAh Lithium ions 3.7 V/4800 mAh
Operating temperature During charging During discharging	0 °C to +40 °C (32 °F to 104 °F) -20 °C to +40 °C (-4 °F to 104 °F)
Storage temperature	-20 °C to +50 °C (-4 °F to 122 °F)

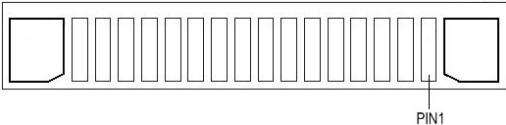
Type	Description
Relative air humidity	20% - 95% (non-condensing)
Backup battery	Ni-MH battery 2.4 V/15 mAh (rechargeable) Integrated in the device and replaceable only in the factory.

Technical Data External Interface

 **CAUTION** Operating of the 16-pin data interface is only permissible outside the hazardous area and only with devices specified by the manufacturer!

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

Pin Outs Interface Connector



PIN	Description	PIN	Description
1	Power Gnd	9	RS232_TxD
2	Cradle_Detect	10	RS232_RxD
3	RS232_DCD/Trigger	11	RS232_RTS
4	USB_D-	12	RS232_CTS
5	USB_D+	13	RS232_DTR
6	USB_Gnd	14	RS232_DSR
7	USB_Vbus	15	External_5.0V_Out
8	USB_ID	16	External_DC_In_5.4V

## Safety Instructions

### Warnings for the MC75A-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.

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



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



**CAUTION** Substitution of components may impair non incentive.

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

Operating of the 16-pin data interface is only permissible outside the hazardous area and only with devices specified by the manufacturer!

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

Protect the device from impact. 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.

Avoid the influence of heat that is higher or lower than the specified temperature range (see [Technical Data on page 7](#)). Avoid the effects of moisture.

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



**ATTENTION** 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.

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 during operation.

## Warnings for Battery



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

It must be ensured that only original batteries are used for the safety-related operation for the MC75A-NI. (See [Battery on page 25](#) for the list of the batteries assessed in accordance with internal production control procedures).

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 guide and is only suitable for use in the MC75A-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.

## Warnings for Accessories



**NOTE** Only microSD cards tested by Zebra for that purpose may be used in the slot.

The devices are modified to suit the selected memory versions. The end user can replace the microSD card later, but must follow the instructions in [microSD card on page 23](#).



**NOTE** The devices are modified to suit the selected keyboard variant. It is not possible for the end user to replace the keyboard.

## 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.

## Health and Safety Recommendations



**CAUTION** Use only the accessories, batteries and battery chargers approved by Zebra. Do not attempt to charge damp/wet MC75A-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 MC75A-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.

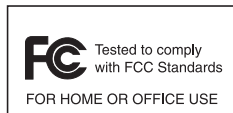
## Country-Specific Roaming

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.

### ***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 Europe<sup>1</sup>.

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.

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.

### ***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.

## 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: MC75Ax NI

### ***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.

## **Operation**

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

- one MC75A-NI
- one Lithium-ion battery
- one Battery cover/strap assembly
- one Protective overlay on the display window
- one Stylus
- one User Guide.



**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 MC75A-NI:

1. Install a microSD card (optional)
2. Install the SIM card (only MC75A-NI)
3. Insert the battery.

## ***Recommended Position***

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

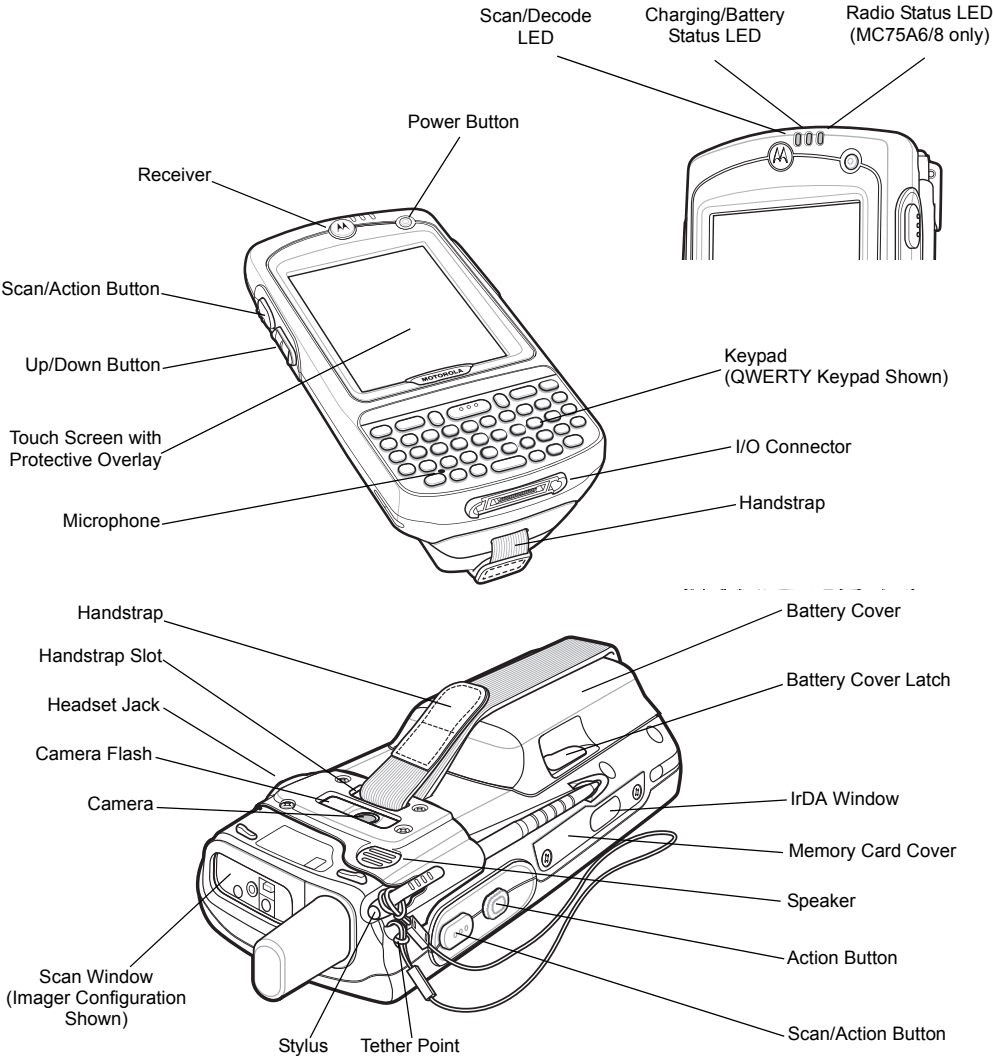


In this position the device cannot be protected against damage.



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

Parts of the MC75A-NI



## microSD card

The microSD card slot provides secondary non-volatile storage. The slot is located on the side of the MC75A-NI. Refer to the documentation provided with the card for more information, and follow the manufacturer's recommendations for use.

Zebra recommend to use following tested micro SD cards:

- 1 GB Order number 17-C1Z0-0007
- 2 GB Order number 17-C1Z0-0008



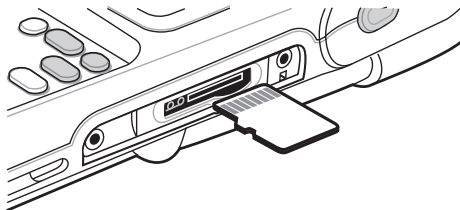
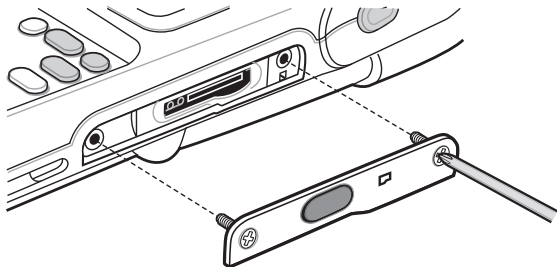
**CAUTION** The micro SD card may only installed and replaced outside of the hazardous area.

Only micro SD cards tested by Zebra for that purpose may be used in the slot.

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

1. Remove the memory card cover on the side of the MC75A-NI by loosening the two captive screws.



2. Insert the card with the card contacts facing up, until you feel a click.
3. Replace the memory card cover and tighten the screws.


## SIM Card


### Inserting or Removing the SIM Card

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 MC75A-NI and may contain the following information:

- Mobile telephone account details of the service provider.

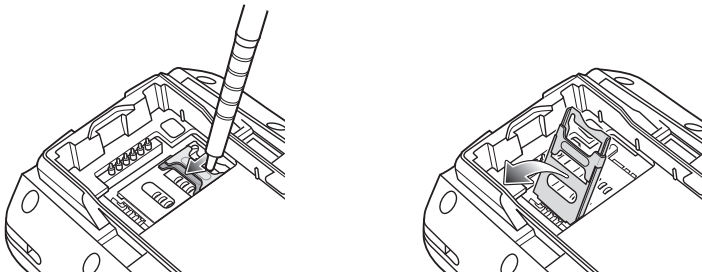
- Information about the service settings and service access.
- Contact information, which can be shifted to the MC75A-NI into the “Contacts” area.
- Any other services you have subscribed.

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

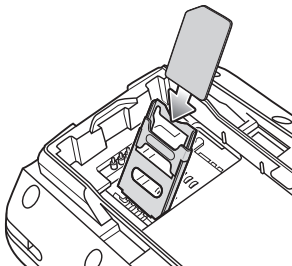
 **NOTE** Only MC75A6 NI - configuration.  
Please refer to the documentation of your service provider for further information about SIM cards.

To insert the SIM card:

1. Slide the SIM cover to unlock.
2. Lift the SIM cover using the stylus tip.



3. Insert the SIM card, as shown in the next figure, with the cut edge of the card facing out and the contacts facing.



4. Lower the SIM cover and using the stylus tip, slide it in place.
5. Install the battery. See [Inserting the Battery on page 26](#) for more information.

6. After completing initial MC75A6 NI setup or after replacing a SIM card:
  - a. Press the red Power button.
  - b. On the Today screen, tap the Antenna icon and select Wireless Manager in the dialog box.
  - c. Ensure Phone is on.
  - d. Press the red Power button to suspend the MC75A6 NI.
  - e. Perform a warm boot. See [Resetting the MC75A-NI on page 33](#).
  - f. Make a call to verify cellular connection.

✓ **NOTE** You can find detailed information about WWAN activation and settings in the *MC75A Integrator Guide*.

## Battery

### *Information about the Battery*

The batteries from Zebra (See [Accessories on page 37](#) for the list of the batteries assessed in accordance with the internal production control procedure) have been developed and manufactured in accordance with the highest industrial standards. The battery's operating time or storage time is limited. The actual service life of a battery is affected by various factors, e.g. heat, cold, tough operating environment and a fall from a great height. Storing a battery for longer than six months can have a lasting negative impact on its power. Keep the batteries in a dry, cool place. Take the batteries out of the device when storing for a long time in order to prevent self-discharge, rusting on metal parts and leaking electrolyte.

Batteries that are to be stored for the duration of ½ year or longer should be recharged at least every 3 months and discharged again. If electrolyte leaks, avoid touching the affected areas and dispose of the batteries in accordance with regulations. Replace the battery when a significant reduction in operating time is noticed. Batteries must be recharged at a temperature between 0 °C and +40 °C (32 °F to 104 °F).

The standard guarantee period for all Zebra batteries is one year, whereby it is insignificant whether or not the battery was acquired separately or included with the MC75A-NI.



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

Ensure that only original batteries of the following types are used in safety-oriented operation.  
82-71364-05NI with 3.7 V/3600 mAh or 82-71364-06NI with 3.7 V/4800 mAh.

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

- ✓ **NOTE** The temperature range for charging the battery is 0 °C to +40 °C.
- For this purpose, the charging procedure of the MC75A-NI is activated and deactivated at short time intervals to keep the battery temperature within the permissible range. An LED on the MC75A-NI indicates when the charging procedure was disabled because of excess temperature. Use only accessories approved by Zebra to charge the batteries.
- Do not remove the battery during the first 15 hours of operation. There is a risk of losing data if the battery is removed.
- The cradles may be used for charging and for data communication only outside the hazardous area.

## Charging the Battery

Before first use of the MC75A-NI, the battery must be charged either with the charging cable or a cradle:

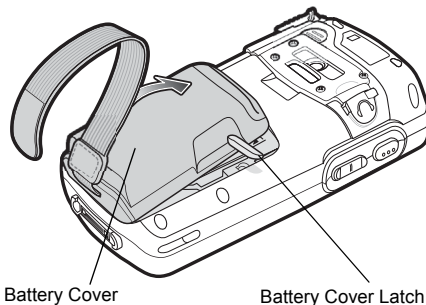
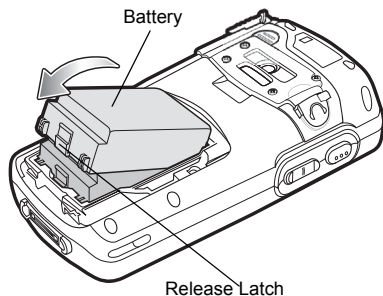
- Single Slot USB/Serial cable
  - Four Slot Charge Only cradle
  - Four Slot Ethernet cradle.
1. Connect the charging accessory to the appropriate power source.
  2. Insert the MC75A-NI into a cradle or attach to a cable. The MC75A-NI begins charging. The Charging/Battery Status LED blinks amber while charging, then turns solid amber when fully charged.

## Inserting the Battery

Before using the MC75A-NI, install a lithium-ion battery. Depending upon the configuration, the MC75A-NI may ship with a 3600 mAh or 4800 mAh battery. The 3600 mAh battery is shown. The extended capacity batteries require a larger battery cover. When using the 4800 mAh battery (light grey color), ensure that the 4800 mAh battery door is used.

To insert the battery:

1. Insert the battery, top first, into the battery compartment in the back of the MC75A-NI.
- ✓ **NOTE** Position the battery correctly, with the battery charging contacts on top of the charging contacts in the battery compartment.
2. Press the battery down into the battery compartment until the battery release latch snaps into place.

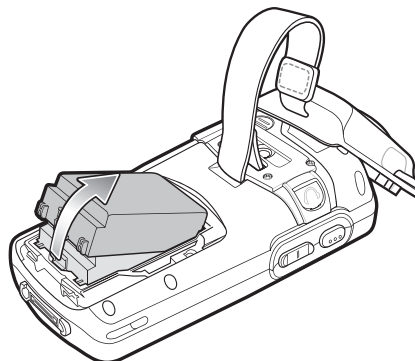
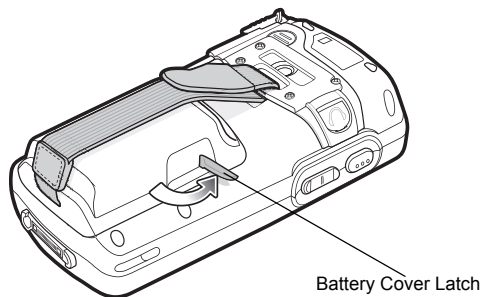


3. With the battery cover latches open, insert the cover, bottom first, then press down on the top of the cover.
4. Close the battery cover latches on either side of the battery cover.
5. Insert the handstrap through the handstrap slot, then tighten and press down to secure.
6. The MC75A-NI powers up after inserting the battery and replacing the battery cover.

## Removing the Battery

To remove the battery:


1. Press the red power button to suspend the MC75A-NI.
2. Loosen the handstrap at the top of the MC75A-NI.
3. Open the battery cover latches on either side of the battery cover.




4. Lift the top of the battery cover and remove.

5. Press the battery release latch on the bottom of the battery to unlock, and lift the battery out of the well.

Charging the MC75A-NI

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

 **NOTE** The temperature range for charging the battery is 0 °C to +40 °C.  
For this purpose, the charging procedure of the MC75A-NI is activated and deactivated at short time intervals to keep the battery temperature within the permissible range. A LED on the MC75A-NI indicates when the charging procedure was disabled because of excess temperature.  
Use only accessories approved by Zebra to charge the batteries.

The MC75A-NI is equipped with a battery backup module, which is charged automatically when the main battery is fully charged. When the MC75A-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 MC75A-NI was removed. When the MC75A-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 cradles, as well as about the charging procedure in the *MC75A User Guide*.

To charge the battery:

1. Connect the charging accessory to the appropriate power source.
2. Insert the MC75A-NI into a cradle or attach to a cable. The MC75A-NI begins charging. The Charging/Battery Status LED blinks amber while charging, then turns solid amber when fully charged.

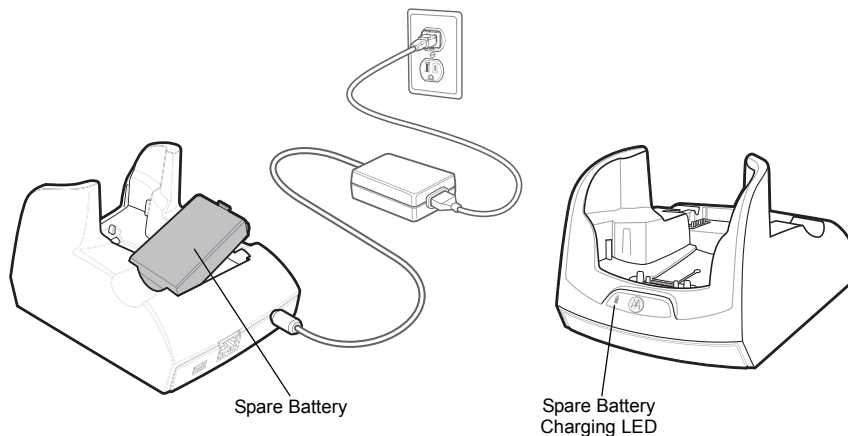
The table lists the charge times for each available battery.

Battery Type And Size	Charge Time
82-71364-05NI / Lithium Ion 3,7 V / 3600 mAh	in less than eight hours
82-71364-06NI / Lithium Ion 3,7 V / 4800 mAh	in less than ten hours

Charging

To charge the battery in a Single Slot USB/Serial cradle.

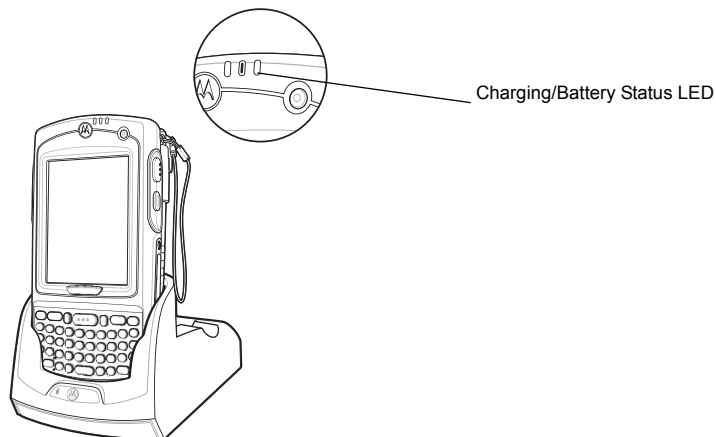
1. Remove the battery from the MC75A-NI as described in [Removing the Battery on page 27](#).
2. Insert the battery into the Single Slot USB/Serial cradle.



3. Once the Single Slot USB/Serial cradle is connected to an AC voltage supply, the charging begins automatically.
4. The 3600 mAh battery fully charges in less than five hours and the 4800 mAh battery fully charges in less than seven hours. The battery has finished charging when the LED lights steadily.

Charging the Battery in the MC75A-NI.

1. Insert the MC75A-NI into the Single Slot USB/Serial cradle.



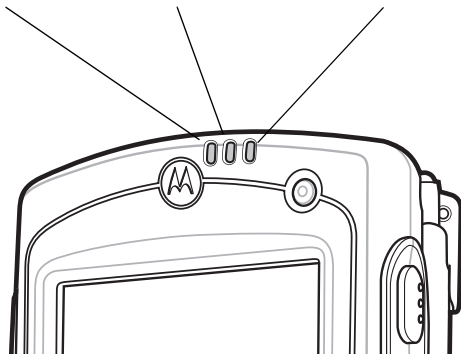
- 2. Once the Single Slot USB/Serial cradle is connected to an AC voltage supply, the charging begins
- 3. The 3600 mAh battery fully charges in less than five hours and the 4800 mAh battery fully charges in less than seven hours. The battery has finished charging if the LED lights steadily.

LED Indicators

Scan/Decode LED

Charging/Battery  
Status LED

Radio Status LED  
(MC75A6/8 only)



Charging/Battery Status LED	Indication
Off	MC75A-NI is not charging. MC75A-NI is not inserted correctly in the cradle or connected to a power source. Charger/cradle is not powered.
Slow Blinking Amber (1 blink every 2 seconds)	MC75A-NI is charging.
Solid Amber	Charging complete. Note: When the battery is initially inserted in the MC75A-NI, the amber LED flashes once if the battery power is low or the battery is not fully inserted.
Fast Blinking Amber (2 blinks/second)	Temperature is too low or too high. Charging error, e.g.: Charging has gone on too long without completion (typically eight hours).

## Charging the Backup Battery

The MC75A is equipped with a memory backup battery which automatically charges from the fully-charged main battery. When using the MC75A for the first time, the backup battery requires approximately 36 hours to fully charge. This is also true any time the backup battery is discharged, which occurs when the main battery is removed for several hours. The backup battery retains RAM data in memory for at least 15 minutes (at room temperature) when the MC75A's main battery is removed. When the MC75A reaches a very low battery state, the combination of main battery and backup battery retains RAM data in memory for at least 48 hours.

## Screen Protector

The MC75A-NI is provided with a screen protector. Zebra recommends using this protector to prevent wear marks. A screen protector contributes to the user friendliness of the device and protects the touch screen.



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

It must be ensured that only original screen protectors used in safety-oriented operation.

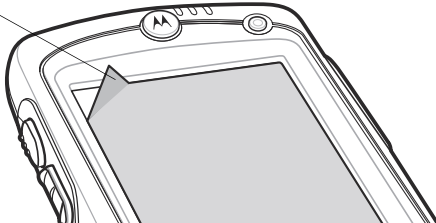
Use only Zebra p/n KT-67525-01R.

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

To remove the screen protector, lift the corner with a thin plastic card (credit card) and then pull it off the display with care.

Lift Screen  
Protector Corner



**ATTENTION** Do not use any sharp objects to remove the screen protector foil. This could damage the display.

- ✓ **NOTE** Use without the screen protector impairs, amongst other things, the equipment warranty. You can get a replacement screen protector from your customer consultant or from Zebra. Installation instructions for the screen protector are part of the delivery scope. Part number: KT-67525-01R screen protector, pack of 3.

When putting on the new screen protector, follow the instructions given with the screen protector.

## Connection to the PC

The MC75A-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**

The Microsoft ActiveSync program is used for synchronizing or installing software and data. ActiveSync is available for downloading as freeware at [www.microsoft.com](http://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](http://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.

## Troubleshooting



**CAUTION** If you have any problems with the MC75A-NI, bring the device into a safe area first before you try to remedy the fault.

Notes on Troubleshooting can be found in the *MC75A User Guide* or *MC75A Integrator Guide on Support Central*.

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

### Resetting the MC75A-NI

If the functions stop working when using the MC75A-NI, it is recommendable to reboot the device.

There are two reset functions: warm boot and cold boot. If these do not function, the MC75A-NI can be reset to the factory defaults by performing a clean boot.

In a warm boot the MC75A-NI is rebooted and all active programs are shut down.

In a cold boot the MC75A-NI is started again too and all active programs are closed.



**NOTE** Data stored in the flash memory or on a memory card is not lost. First do a warm boot. The MC75A-NI is rebooted and all stored data records and entries are preserved. If the MC75A-NI still does not react after a warm boot, conduct a cold boot.

#### ***Performing a Warm Boot***

Hold down the power key for approximately five seconds. Release the power key as soon as the MC75A-NI boots to perform a warm boot.

#### ***Performing a Cold Boot***



**NOTE** Perform a cold boot only if the problem cannot be remedied by warm boot.

To cold boot the MC75A-NI simultaneously press the power key and keys 1 and 9 on the MC75A-NI. The MC75A-NI is initialized again.

## Battery Management

Please pay attention to the following tips to save battery energy:

✓ **NOTE** The MC75A-NI factory default settings for the WWAN and WLAN radios are set to ON.

- Leave the MC75A-NI connected to AC power at all times when not in use.
- Set the MC75A-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.
- Power off the MC75A-NI when charging to charge at a faster rate.
- Set IST to turn the display off or to suspend when the MC75A-NI is placed face down.

### *Changing the Power Settings*

To set the MC75A-NI to turn off after a short period of non-use:

1. Tap **Start > Settings > System** tab > **Power** icon > **Advanced** tab.
2. Select the **On battery power: Turn off device if not used for** check box and select a value from the drop-down list.
3. Select **ok**.

### *Changing the Backlight Settings*

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

1. Tap **Start > Settings > System** tab > **Backlight** icon > **Battery Power** tab.
2. Select the **Disable backlight if device is not used for** check box and select a value from the drop-down list.
3. Select the **Brightness** tab.
4. Tap the **Disable backlight** check box to turn off the display backlight, or use the slider to set a low value for the backlight.
5. Select **ok**.

### *Changing the Keypad Backlight Settings*

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

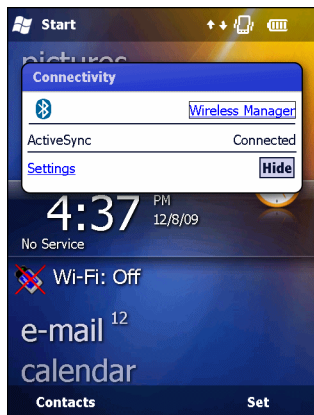
1. Tap **Start > Settings > System** tab > **Keylight** icon > **Battery Power** tab.
2. Select the **On battery power: Disable keylight if device if not used for** check box and select a value from the drop-down list.

3. Select the **Advanced** tab.
4. Tap the **Disable keylight** check box to turn off the keypad backlight.
5. Select **ok**.

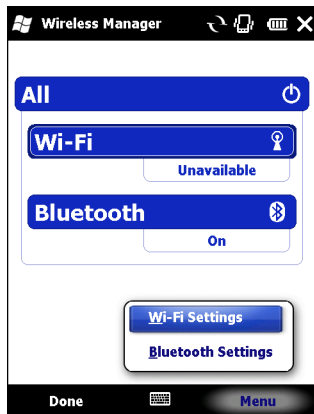
### ***Turning Off the Radios***

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.



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

To enable or disable all wireless connections, tap the All button.

To configure settings for a connection, tap **Menu**.

### ***Tips on Optimizing the Operating Period***

- Always leave the MC75A-NI connected to the mains supply if it is not in operation.
- Adjust the MC75A-NI so that it will switch off if it is not used for a lengthy period.
- Adjust the backlighting for the display and keyboard so that it will switch off if the MC75A-NI is not used for a lengthy time.
- Deactivate all wireless units that are not in use.
- To accelerate recharging, switch the MC75A-NI off before starting the charging process.

## Accessories

Accessories for the explosion protected area Class I, II, III Division 2:

Accessory	Part Number
<b>Miscellaneous</b>	
Spare 3600 mAh lithium-ion battery	82-71364-05NI
Spare 4800 mAh lithium-ion battery	82-71364-06NI

Accessories for the non-explosion protected area:

Accessory	Part Number
<b>Cradles</b>	
Single Slot USB/Serial Cradle	CRD7X00-1000RR
Four Slot Ethernet Cradle	CRD7000-4000ER
Four Slot Charge Only Cradle	CRD7X00-4000CR
VCD7000 Vehicle Cradle	VCD7X00-P000R
<b>Chargers</b>	
Four Slot Battery Charger	SAC7X00-4000CR
Serial Charging Cable	25-102776-01R
USB Charging Cable	25-102775-01R
Charge Only Cable	25-95214-02R
Auto Charge Cable	25-70979-01R
<b>Cables</b>	
DEX Cable	25-76793-01R
Modem Inverter Cables	25-70924-03R
O'Neil Printer Cable	25-91519-01R
Zebra Printer Cable	25-91518-01R
Zebra Printer Cable	25-91515-01R
<b>Miscellaneous</b>	
Magnetic Stripe Reader (MSR)	MSR7000-100R

Accessory	Part Number
Zebra Snap-On Mobile Payment Module	DCR7X00-100R
Snap-on Mobile Payment Module with Chip and PIN	DCR7X00-200R
Biometric Reader	MC7XFPFR-01R
Biometric Reader	MC7XFPSCR-01R
Modem Dongle	MDM9000-100R
Headset	50-11300-050R
Belt Mounted Rigid Holster	SG-MC70011110-01R
Fabric Holster	SG-MC7521215-01R
Stylus	Stylus-00002-03R
Wall Mounting Kit	8710-050006-01R

## Maintenance, Cleaning and Repair

This section describes cleaning and storing the MC75A-NI, as well as possible procedures when problems occur while using the MC75A-NI.

### Maintenance

For trouble-free service, observe the following tips when using the MC75A-NI:

- Do not scratch the screen of the MC75A-NI. When working with the MC75A-NI, use the supplied stylus or plastic-tipped pens intended for use with a touch-sensitive screen. Never use an actual pen or pencil or other sharp object on the surface of the MC75A-NI screen.
- A screen protector, p/n KT-67525-01R, is applied to the MC75A-NI. Zebra recommends using this to minimize wear and tear. Screen protectors enhance the usability and durability of touch screen displays. Benefits include:
  - Protection from scratches and gouges
  - Durable writing and touch surface with tactile feel
  - Abrasion and chemical resistance
  - Glare reduction
  - Keeping the device's screen looking new
  - Quick and easy installation.
- The touch-sensitive screen of the MC75A-NI is glass. Do not to drop the MC75A-NI or subject it to strong impact.
- Protect the MC75A-NI from temperature extremes. Do not leave it on the dashboard of a car on a hot day, and keep it away from heat sources.
- Do not store or use the MC75A-NI in any location that is dusty, damp, or wet.
- Use a soft lens cloth to clean the MC75A-NI. If the surface of the MC75A-NI screen becomes soiled, clean it with a soft cloth moistened with a diluted window-cleaning solution.
- Periodically replace the rechargeable battery to ensure maximum battery life and product performance. Battery life depends on individual usage patterns.
- 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 chapter "Battery Maintenance".
- 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.

- 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 hazardous area.
- Before a lengthy idle time it is essential to charge the battery completely and to recharge it regularly (every 3 months).

## 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 MC75A-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 [Replacing the Main Battery on page 9](#).
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 MC75A-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 MC75A-NI. See [Inserting the Battery on page 26](#).
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 on the connector area by pointing the tube/nozzle about 1/2 inch away from 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 MC75A-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 on 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.

## Information About Repairs

### Customer Service Information

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

Please have the following information available when you contact Zebra:

- Serial number of the device (you can find this on the manufacturer label)
- Model number or product name (you can find these on the manufacturer label)
- Software type and version number.

## 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 termékét a Zebra vállalatához kell eljuttatni újrahazsznosítás 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:** Asiakkaita Euroopan unionin alueella: Kaikki tuotteet on palautettava kierrätettäväksi Zebra-yhtiöön, kun tuotetta ei enää käytetä. Lisätietoja tuotteiden 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-UE: il-prodotti kollha li jkunu waslu fl-aħħar tal-hajja ta' l-użu tagħhom, iridu jiġu rritornati għand Zebra għar-riciklagg. 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. Blíže informácie o vrátení výrobkov nájdete na: <http://www.zebra.com/weee>.

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

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

## **TURKISH 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.**

- Specific Use.** Company designed this device for a specific use. You may only use the software for that use.
- 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.
  - 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.
- 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.
- 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](http://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.

**14. NOT FAULT TOLERANT.** The software is not fault tolerant. Company installed the software on the device and is responsible for how it operates on the device.

**15. RESTRICTED USE.** The Microsoft software was designed for systems that do not require fail-safe performance. You may not use the Microsoft software in any device or system in which a malfunction of the software would result in foreseeable risk of injury or death to any person. This includes operation of nuclear facilities, aircraft navigation or communication systems and air traffic control.

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- claims for breach of contract, breach of warranty, guarantee or condition, strict liability, negligence, or other tort to the extent permitted by applicable law.

It also applies even if Microsoft should have been aware of the possibility of the damages. The above limitation may not apply to you because your country may not allow the exclusion or limitation of incidental, consequential or other damages.

**18. EXPORT RESTRICTIONS.** The software is subject to United States export laws and regulations. You must comply with all domestic and international export laws and regulations that apply to the software. These laws include restrictions on destinations, end users and end use. For additional information, see [www.microsoft.com/exporting](http://www.microsoft.com/exporting).



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