

# MC18 QUICK REFERENCE GUIDE



**symbol**

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## Warranty

For the complete hardware product warranty statement, go to: <http://www.motorolasolutions.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 Global Customer Support at: <http://www.motorolasolutions.com/support>. For detailed documentation and the latest version of this guide go to: <http://www.motorolasolutions.com/support>

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MN000835A01 Revision A - July 2014



## Introduction

This Quick Reference Guide describes the main features of the MC18, scanning bar codes, installing and removing a battery and manual release of a locked MC18 from a cradle.

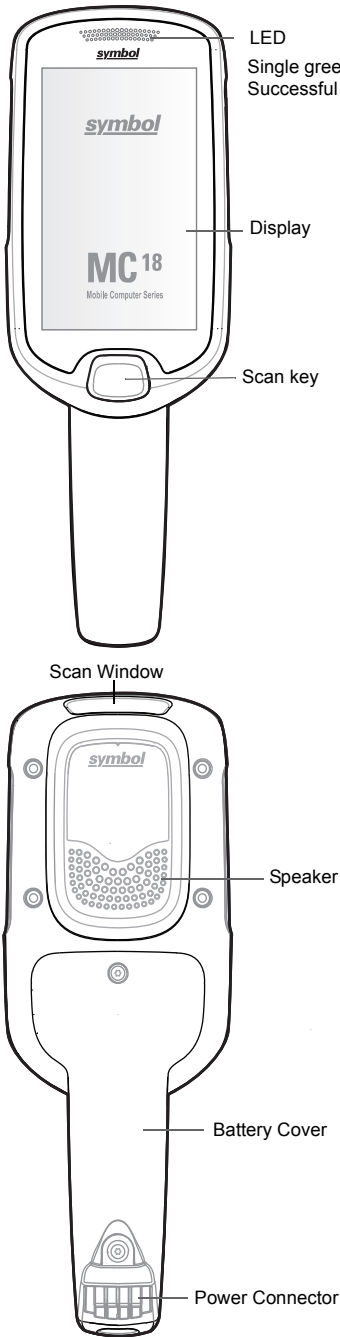
This guide also provides regulatory information.

## Unpacking

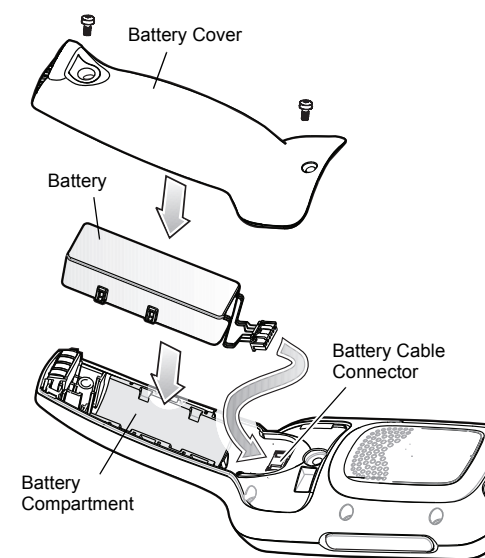
Carefully remove all items from the shipping box and save the shipping box for later storage and shipping. Verify that you received all the items listed below:

- MC18
- Lithium-ion battery
- This Quick Reference Guide.

## Features



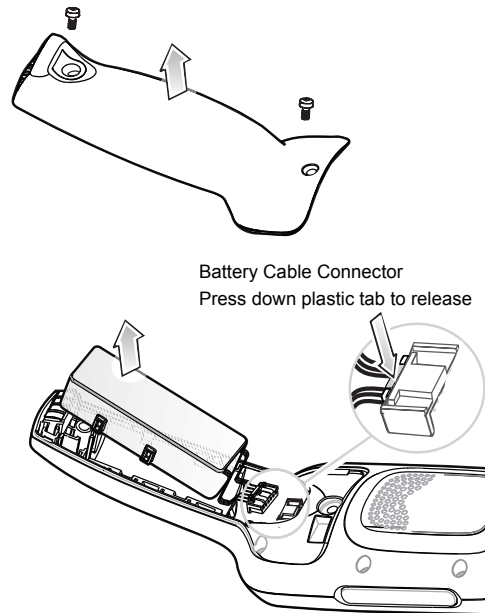
- Place the battery inside the battery compartment.
- Place the battery cover onto the handle.
- Secure the battery cover with the two Torx screws using a T8 Torx drive. Torque the screws to 3.6 Kgf-cm (3.1 in-lb).



## Removing the Battery

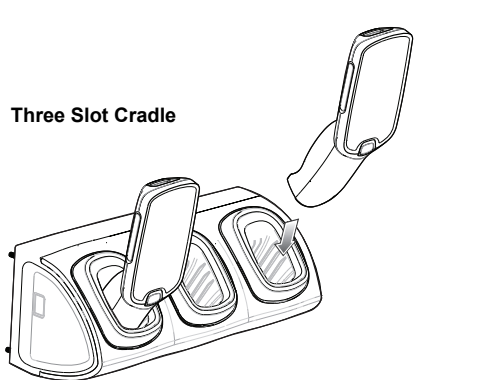
To remove the battery:

- Use T8 Torx drive to remove the two screws that secure the battery cover.
- Lift the battery cover from the handle.
- Inside the battery compartment, press down the plastic tab of the Battery cable connector and slide it out of the female connector.
- Remove the battery from the battery compartment.

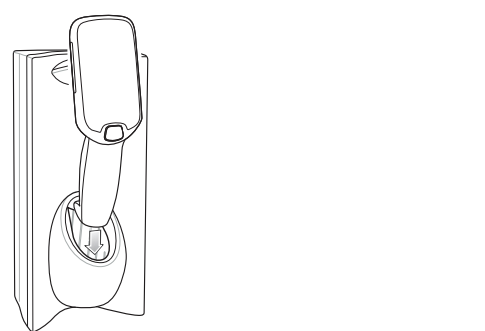


## Charging the Battery

To charge the battery, Insert the MC18 into the cradle.



## Single Slot Cradle



With a fully depleted battery, the MC18 fully charges in approximately four hours. Refer to the *MC18 Product Reference Guide* for specific charging profile information.

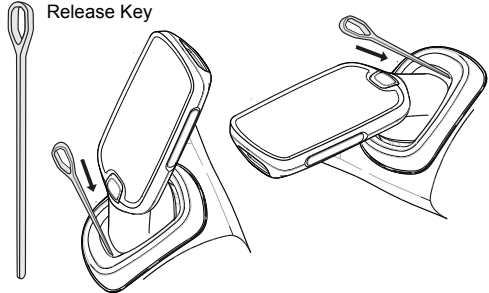
## Manual Release of MC18 from Charging Cradles

Some cradle models contain a locking mechanism that locks the MC18 into the cradle. The MC18 releases from the cradle via a software command to the cradle. If the MC18 does not unlock from the cradle, unlock it manually as described below.

**CAUTION** Do not use any device to unlock the cradle other than the tools described below. Failure to comply could result in damage to the cradle and void the warranty.

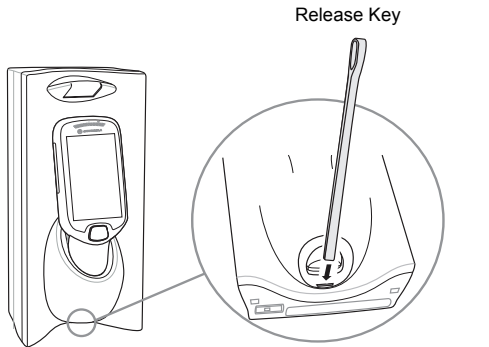
## Three Slot Cradle - Release Key

- Insert the release key straight into the socket.
- While pressing the release key all the way to the end of the socket, remove the MC18 from the socket.



## Single Slot Cradle - Release Key

- Insert the release key into the slot located at the bottom side of the cradle.
- While pressing the release key all the way into the slot, remove the MC18 from the cradle



## Regulatory Information

This device is approved under Symbol Technologies, Inc.

This guide applies to the following Model Number: MC18N0.

All Symbol devices are designed to be compliant with rules and regulations in locations they are sold and will be labeled as required.

Local language translations are available at the following website: [www.motorolasolutions.com/support](http://www.motorolasolutions.com/support) Any changes or modifications to Symbol equipment, not expressly approved by Symbol, could void the user's authority to operate the equipment.

**CAUTION** Only use Symbol approved and UL Listed accessories, battery packs and battery chargers. Do NOT attempt to charge damp/wet devices or batteries. All components must be dry before connecting to an external power source. Declared maximum operating temperature: 104°F (40°C).

## Bluetooth® Wireless Technology

This is an approved Bluetooth® product. For more information or to view End Product Listing, please visit <https://www.bluetooth.org/tgp/listings.cfm>

## Wireless Device Country Approvals

Regulatory markings, subject to certification, are applied to the device signifying the radio(s) is approved for use in the following countries: United States, Canada, Australia and Europe<sup>1</sup>.

Please refer to the Declaration of Conformity (DoC) for details of other country markings. This is available at: <http://www.motorolasolutions.com/doc>

<sup>1</sup>**Note:** For 2.4GHz or 5GHz Products: Europe includes, Austria, Belgium, Bulgaria, Croatia, Czech Republic, Cyprus, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Liechtenstein, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovak Republic, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

**CAUTION** Operation of the device without regulatory approval is illegal.

## Ad-Hoc Operation (2.4 GHz band)

Ad-Hoc operation is limited to Channels 1-11 (2412-2462 MHz).

## Frequency of Operation - FCC and IC

### 5 GHz Only

The use in the UNII (Unlicensed National Information Infrastructure) band 1 (5150-5250 MHz) is restricted to Indoor Use Only; any other use will make the operation of this device illegal.

### Industry Canada Statement:

**Caution:** The device for the band 5150-5250 MHz is only for indoor usage to reduce potential for harmful interference to co-Channel mobile satellite systems. High power radars are allocated as primary users (meaning they have priority) of 5250-5350 MHz and 5650-5850 MHz and these radars could cause interference and/or damage to LE-LAN devices.

**Avertissement:** Le dispositif fonctionnant dans la bande 5150-5250 MHz est réservé uniquement pour une utilisation à l'intérieur afin de réduire les risques de brouillage préjudiciable aux systèmes de satellites mobiles utilisant les mêmes canaux. Les utilisateurs de radars de haute puissance sont désignés utilisateurs principaux (c.-à-d., qu'ils ont la priorité) pour les bandes 5250-5350 MHz et 5650-5850 MHz et que ces radars pourraient causer du brouillage et/ou des dommages aux dispositifs LAN-EL.

## Health and Safety Recommendations

### Ergonomic Recommendations

**Caution:** In order to avoid or minimize the potential risk of ergonomic injury follow the recommendations below. Consult with your local Health & Safety Manager to ensure that you are adhering to your company's safety programs to prevent employee injury.

- Reduce or eliminate repetitive motion
- Maintain a natural position
- Reduce or eliminate excessive force
- Keep objects that are used frequently within easy reach
- Perform tasks at correct heights
- Reduce or eliminate vibration
- Reduce or eliminate direct pressure
- Provide adjustable workstations
- Provide adequate clearance
- Provide a suitable working environment
- Improve work procedures

### Warnings for Use of Wireless Devices

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

### Pacemakers

Pacemaker manufacturers recommended that a minimum of 15cm (6 inches) be maintained between a handheld wireless device and a pacemaker to avoid potential interference with the pacemaker. These recommendations are consistent with independent research and recommendations by Wireless Technology Research.

Persons with Pacemakers:

- Should ALWAYS keep the device more than 15cm (6 inches) from their pacemaker when turned ON.
- Should not carry the device in a breast pocket.
- Should use the ear furthest from the pacemaker to minimise the potential for interference.
- If you have any reason to suspect that interference is taking place, turn OFF your device.

### Other Medical Devices

Please consult your physician or the manufacturer of the medical device, to determine if the operation of your wireless product may interfere with the medical device.

### RF Exposure Guidelines

#### Safety Information

##### Reducing RF Exposure - Use Properly

Only operate the device in accordance with the instructions supplied.

#### International

The device complies with internationally recognized standards covering human exposure to electromagnetic fields from radio devices. For information on "International" human exposure to electromagnetic fields refer to the Symbol Declaration of Conformity (DoC) at: <http://www.motorolasolutions.com/doc> For further information on the safety of RF energy from wireless devices - see <http://responsibility.motorolasolutions.com/index.php/downloads/> Located under Wireless Communications and Health Europe  
**Handheld Devices** - This device was tested for hand-held and body-worn conditions.

To satisfy EU RF exposure requirements, the transmitting device must operate with a minimum separation distance of 1 cm or more from a person's body

### US and Canada

#### Co-located Statement

To comply with FCC RF exposure compliance requirement, the antenna used for this transmitter must not be co-located or operating in conjunction with any other transmitter/antenna except those already approved in this filling.

#### Handheld Devices

This device was tested for hand-held and body-worn conditions.

To satisfy US and Canadian RF exposure requirements, the transmitting device must operate with a minimum separation distance of 1 cm or more from a person's body.

Pour satisfaire aux exigences Américaines et Canadiennes d'exposition aux radiofréquences, un dispositif de transmission doit fonctionner avec une distance de séparation minimale de 1 cm ou plus de corps d'une personne.

## LED Devices

LED Compliance Statement:

Classified as "EXEMPT RISK GROUP" according to IEC 62471:2006 and EN 62471:2008.

## Power Supply

For charge cradle, use ONLY a Motorola/Symbol approved UL LISTED ITE (IEC/EN 60950-1, LPS/SELV) power supply with electrical ratings: Output 12Vdc, min 9A, with a maximum ambient temperature of at least 50°C.

Use of alternative power supply will invalidate any approvals given to this unit and may be dangerous.

## Batteries

### Battery Information

**CAUTION:** Risk of explosion if battery is replaced by an incorrect type. Dispose of batteries according to instructions.

Use only Symbol approved batteries. Accessories which have battery charging capability are approved for use with the following battery models: Symbol BT000018A01 (3.7 Vdc, 2725 mAh typical) Symbol rechargeable battery packs are designed and constructed to the highest standards within the industry. However, there are limitations to how long a battery can operate or be stored before needing replacement. Many factors affect the actual life cycle of a battery pack, such as heat, cold, harsh environmental conditions and severe drops. When batteries are stored over six (6) months, some irreversible deterioration in overall battery quality may occur. Store batteries at half of full charge in a dry, cool place, removed from the equipment to prevent loss of capacity, rusting of metallic parts and electrolyte leakage. When storing batteries for one year or longer, the charge level should be verified at least once a year and charged to half of full charge. Replace the battery when a significant loss of run time is detected.

Standard warranty period for all Symbol batteries is one year, regardless if the battery was purchased separately or included as part of the mobile computer or bar code scanner. For more information on Symbol batteries, please visit: <https://atgsupportcentral.motorolasolutions.com/content/emb/docs/MSCBatBasics1.pdf>

## Battery Safety Guidelines

- The area in which the units are charged should be clear of debris and combustible materials or chemicals. Particular care should be taken where the device is charged in a non commercial environment.
- Follow battery usage, storage, and charging guidelines found in the user's guide.
- Improper battery use may result in a fire, explosion, or other hazard.
- To charge the mobile device battery, the battery and charger temperatures must be between +32°F and +104°F (0°C and +40°C)
- Do not use incompatible batteries and chargers. Use of an incompatible battery or charger may present a risk of fire, explosion, leakage, or other hazard. If you have any questions about the compatibility of a battery or a charger, contact Symbol Global Customer support.
- Do not disassemble or open, crush, bend or deform, puncture, or shred.
- Severe impact from dropping any battery-operated device on a hard surface could cause the battery to overheat.
- Do not short circuit a battery or allow metallic or conductive objects to contact the battery terminals.



- Do not modify or remanufacture, attempt to insert foreign objects into the battery, immerse or expose to water or other liquids, or expose to fire, explosion, or other hazard.
- Do not leave or store the equipment in or near areas that might get very hot, such as in a parked vehicle or near a radiator or other heat source. Do not place battery into a microwave oven or dryer.
- Battery usage by children should be supervised.
- Please follow local regulations to promptly dispose of used re-chargeable batteries.
- Do not dispose of batteries in fire.
- Seek medical advice immediately if a battery has been swallowed.
- In the event of a battery leak, do not allow the liquid to come in contact with the skin or eyes. If contact has been made, wash the affected area with large amounts of water and seek medical advice.
- If you suspect damage to your equipment or battery, contact Symbol Global Customer support to arrange for inspection.

## Use with Hearing Aids

When some wireless devices are used near some hearing devices (hearing aids and cochlear implants), users may detect a buzzing, humming, or whining noise. Some hearing devices are more immune than others to this interference noise, and wireless devices also vary in the amount of interference they generate. In the event of interference you may want to consult your hearing aid supplier to discuss solutions. This device is not HAC compliant.

## Radio Frequency Interference Requirements- FCC

**Note:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules.

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

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

### Radio Transmitters (Part 15)

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

**The use of 5 GHz WLAN's, for use in the US, have the following restrictions:**

- Notched Band 5.60 – 5.65 GHz

## Radio Frequency Interference Requirements - Canada

### Radio Transmitters

*CAN ICES-3 (B)/NMB-3(B)*

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

- Restricted Band 5.60 - 5.65 GHz

This device is in compliance with the RSS for Industry Canada applicable to license-exempt radios. Use is allowed with the following two conditions: (1) the device must not produce interference, and (2) the device must accept any interference to the radio, even if the interference is likely to compromise operation. Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes: (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement. Label Marking: The Term "IC:" before the radio certification only signifies that Industry Canada technical specifications were met.

### CE Marking and European Economic Area (EEA)

The use of 2.4GHz RLAN's, for use through the EEA, have the following restrictions:

- Maximum radiated transmit power of 100 mW EIRP in the frequency range 2.400 -2.4835 GHz.
- Bluetooth® Wireless Technology for use through the EEA has the following restrictions:
- Maximum radiated transmit power of 100mW EIRP in the frequency range 2.400 -2.4835 GHz.

### Statement of Compliance

Symbol hereby declares that this device is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC and 2011/ 65/EU. A Declaration of Conformity may be obtained from http://www.motorolasolutions.com/doc

### Other Countries

### Australia

Use of 5 GHz RLAN's in Australia is restricted in the following band 5.60 - 5.65GHz.

### Brazil (UNWANTED EMISSIONS - ALL PRODUCTS) Regulatory declarations for MC18N0 - BRAZIL

For more information consult the website www.anatel.gov.br. Declarações Regulamentares para MC18N0 - Brazil Nota: “A marca de certificação se aplica ao Transceptor, modelo MC18N0. Este equipamento opera em caráter secundário, isto é, não tem direito a proteção contra interferência prejudicial, mesmo de estações do mesmo tipo, e não pode causar interferência a sistemas operando em caráter primário.” Para maiores informações sobre ANATEL consulte o site: www.anatel.gov.br. Este equipamento opera em caráter secundário, isto é, não tem direito a proteção contra interferência prejudicial, mesmo de estações do mesmo tipo, e não pode causar interferência a sistemas operando em caráter primário. Este produto está homologado pela Anatel, de acordo com os procedimentos regulamentados pela Resolução nº242/ 2000 e atende aos requisitos técnicos aplicados, incluindo os limites de exposição da Taxa de Absorção Específica referente a campos elétricos, magnéticos e eletromagnéticos de radiofrequência, de acordo com as Resoluções nº 303/2002 e 533/2009. Este dispositivo está em conformidade com as diretrizes de exposição a radiofrequência quando posicionado pelo menos 1 centímetros de distância do corpo. Para maiores informações, consulte o site da Anatel.

### Chile

Este equipo cumple con la Resolución No 403 de 2008, de la Subsecretaria de telecomunicaciones, relativa a radiaciones electromagnéticas.

### Hong Kong

In accordance with HKTA1039, the band 5.15GHz - 5.35GHz is for indoor operation only.

### Mexico

Restrict Frequency Range to: 2.450 - 2.4835 GHz. La operación de este equipo está sujeta a las siguientes dos condiciones: (1) es posible que este equipo o dispositivo no cause interferencia perjudicial y (2) este equipo o dispositivo debe aceptar cualquier interferencia, incluyendo la que pueda causar su operación no deseada.

### Thailand

เครื่องโทรคมนาคมและอุปกรณ์นี้
มีความสอดคล้องตามข้อกำหนดของ กทข .

## Open Source Software Information

For instructions on how to obtain a copy of any source code being made Open Source by Symbol related to software used in this Symbol Product you may send your request in writing to: Symbol Technologies, Inc. Open Source Software Management 1301 E. Algonquin Road Schaumburg, IL 60196, U.S.A.

In your request, please include the Symbol Product Name and Version, along with the Open Source Software specifics, such as the Open Source Software Name and Version.

Note, the source code for the Open Source Software may be resident on the Symbol Product Installation Media, or on supplemental Symbol Product Media. Please reference and review the entire Symbol Open Source Software Legal Notices and End User License Agreement for the details on location and methods of obtaining the source code. Note, dependent on the license terms of the Open Source Software, source code may not be provided. Please reference and review the entire Symbol Open Source Software Legal Notices and End User License Agreement for identifying which Open Source Software Packages will have source code provided. To view additional information regarding licenses, acknowledgements and required copyright notices for open source packages used in this Symbol product, touch Settings

> About phone > Legal information > Open source licenses.

## Waste Electrical and Electronic Equipment (WEEE)

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

**Fransçe:** Clients de l'Union Européenne: Tous les produits en fin de cycle de vie doivent être retournés à Symbol pour recyclage. Pour de plus amples informations sur le retour de produits, consultez : http://www.motorolasolutions.com/recycling/weee.

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

**Български:** За клиенти от ЕС: След края на ползения им живот всички продукти трябва да се връщат на Symbol за рециклиране. За информация относно връщането на продукти, моля отидете на адрес: http://www.motorolasolutions.com/recycling/weee.

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

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

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

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

**Polski:** Klienci z obszaru Unii Europejskiej: Produkty wycofane z eksploatacji naleŹy zwrócić do firmy Symbol w celu ich uŹytkacji. Informacje na temat zwrotu produktów znajduj¹ siê na stronie internetowej http://www.motorolasolutions.com/recycling/weee.

**Čeština:** Pro zákaznky z EU: Všechny produkty je nutné po skoněení jejich životnosti vrátit společnosti Symbol k recyklaci. Informace o způsobu vrácení produktu najdete na webové stránce: http://www.motorolasolutions.com/recycling/weee.

**Eesti:** EL klientidele: kõik tooted tuleb nende eluea lõppedes tagastada taaskasutamise eesmärgil Symbol'ile. Lisainformatsiooni saamiseks toote tagastamise kohta külastage palun aadressi: http://www.motorolasolutions.com/recycling/weee.

**Magyar:** Az EU-ban vásárlóknak: Minden tönkrement terméket a Symbol vállalathoz kell eljuttatni újrahasznosítás céljából. A termék visszajuttatásának módjával kapcsolatos tudnivalókrét látogasson el a http://www.motorolasolutions.com/recycling/weee weboldalra.

**Slovenski:** Za kupce v EU: vsi izdelki se morajo po poteku življenjske dobe vrniti podjetju Symbol za reciklažo. Za informacije o vraèilu izdelka obišeite: http://www.motorolasolutions.com/recycling/weee.

**Svenska:** För kunder inom EU: Alla produkter som uppnått sin livslängd måste returneras till Symbol för återvinning. Information om hur du returnerar produkten finns på http://www.motorolasolutions.com/recycling/weee.

**Suomi:** Asiakkaat Euroopan unionin alueella: Kaikki tuotteet on palautettava kierrätettäväksi Symbol-yhtiöön, kun tuotetta ei enää käytetä. Lisätietoja tuotteen palauttamisesta on osoitteessa http://www.motorolasolutions.com/recycling/weee.

**Dansk:** Til kunder i EU: Alle produkter skal returneres til Symbol til recirkulering, når de er

udtjent. Læs oplysningerne om returnering af produktet på: http://www.motorolasolutions.com/recycling/weee.

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

**Maltil:** Għal klijenti fl-UE: il-prodotti kollha li jkunu waslu fl-aħħar tal-hajja ta' l-użu tagħhom, iridu jiġu rritornati għand Symbol għar-riciklaġġ. Għal aktar taġġirif dwar kif għandek tirritorna l-prodott, jekk jogħġbok żur: http://www.motorolasolutions.com/recycling/weee.

**Slovenski:** Za kupce v EU: vsi izdelki se morajo po poteku življenjske dobe vrniti podjetju Symbol za reciklažo. Za informacije o vračilu izdelka obiščite: http://www.motorolasolutions.com/recycling/weee.

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

**Lietuvių:** ES vartotojams: visi gaminiai, pasibaigus jų eksploatacijos laikui, turi būti grąžinti utilizuoti į kompaniją „Symbol“. Daugiau informacijos, kaip grąžinti gaminį, rasite: http://www.motorolasolutions.com/recycling/weee.

**Latviešu:** ES klientiem: visi produkti pēc to kalpošanas mūža beigām ir jānogādā atpakaļ Symbol otrreizējai pārstrādei. Lai iegūtu informāciju par produktu nogādāšanu Symbol, lūdzu, skatiet: http://www.motorolasolutions.com/recycling/weee.

### Turkish WEEE Statement of Compliance

EEE Yönetmeliğine Uygundur.

## Software Support

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

To confirm that your Symbol device shipped with the latest release of entitled software, visit: www.motorolasolutions.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: entitlementservices@motorolasolutions.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 that your device is entitled to the latest software release, you will receive an email containing a link directing you to a Symbol web site to download the appropriate software.

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金属部件 (Metal Parts)	X	O	O	O	O	O
电路模块 (Circuit Modules)	X	O	O	O	O	O
电缆及电缆组件 (Cables and Cable Assemblies)	O	O	O	O	O	O
塑料和聚合物部件 (Plastic and Polymeric Parts)	O	O	O	O	O	O
光学和光学组件 (Optics and Optical Components)	O	O	O	O	O	O
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