

PTC - 960 SL - III



symbol[®]

P T C - 9 6 0 S L - I I I

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Symbol Technologies, Inc.
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<http://www.symbol.com>

Patents

This product is covered by one or more of the following U.S. and foreign Patents:

U.S. Patent No. 4,593,186; 4,603,262; 4,607,156; 4,652,750; 4,673,805; 4,736,095; 4,758,717; 4,760,248; 4,806,742; 4,816,660; 4,845,350; 4,896,026; 4,897,532; 4,923,281; 4,933,538; 4,992,717; 5,015,833; 5,017,765; 5,021,641; 5,029,183; 5,047,617; 5,103,461; 5,113,445; 5,130,520; 5,140,144; 5,142,550; 5,149,950; 5,157,687; 5,168,148; 5,168,149; 5,180,904; 5,216,232; 5,229,591; 5,230,088; 5,235,167; 5,243,655; 5,247,162; 5,250,791; 5,250,792; 5,260,553; 5,262,627; 5,262,628; 5,266,787; 5,278,398; 5,280,162; 5,280,163; 5,280,164; 5,280,498; 5,304,786; 5,304,788; 5,306,900; 5,324,924; 5,337,361; 5,367,151; 5,373,148; 5,378,882; 5,396,053; 5,396,055; 5,399,846; 5,408,081; 5,410,139; 5,410,140; 5,412,198; 5,418,812; 5,420,411; 5,436,440; 5,444,231; 5,449,891; 5,449,893; 5,468,949; 5,471,042; 5,478,998; 5,479,000; 5,479,002; 5,479,441; 5,504,322; 5,519,577; 5,528,621; 5,532,469; 5,543,610; 5,545,889; 5,552,592; 5,557,093; 5,578,810; 5,581,070; 5,589,679; 5,589,680; 5,608,202; 5,612,531; 5,619,028; 5,627,359; 5,637,852; 5,664,229; 5,668,803; 5,675,139; 5,693,929; 5,698,835; 5,705,800; 5,714,746; 5,723,851; 5,734,152; 5,734,153; 5,742,043; 5,745,794; 5,754,587; 5,762,516; 5,763,863; 5,767,500; 5,789,728; 5,789,731; 5,808,287; 5,811,785; 5,811,787; 5,815,811; 5,821,519; 5,821,520; 5,823,812; 5,828,050; 5,848,064; 5,850,078; 5,861,615; 5,874,720; 5,875,415; 5,900,617; 5,902,989; 5,907,146; 5,912,450; 5,914,478; 5,917,173; 5,920,059; 5,923,025; 5,929,420; 5,945,658; 5,945,659; 5,946,194; 5,959,285; 6,002,918; 6,021,947; 6,029,894; 6,031,830; 6,036,098; 6,047,892; 6,050,491; 6,053,413; 6,056,200; 6,065,678; 6,067,297; 6,082,621; 6,084,528; 6,088,482; 6,092,725; 6,101,483; 6,102,293; 6,104,620; 6,114,712; 6,115,678; 6,119,944; 6,123,265; 6,131,814; 6,138,180; 6,142,379; 6,172,478; 6,176,428; 6,178,426; 6,186,400; 6,188,681; 6,209,788; 6,209,789; 6,216,951; 6,220,514; 6,243,447; 6,244,513; 6,247,647; 6,308,061; 6,250,551; 6,295,031; 6,308,061; 6,308,892; 6,321,990; 6,328,213; 6,330,244; 6,336,587; 6,340,114; 6,340,115; 6,340,119; 6,348,773; D305,885; D341,584; D344,501; D359,483; D362,453; D363,700; D363,918; D370,478; D383,124; D391,250; D405,077; D406,581; D414,171; D414,172; D418,500; D419,548; D423,468; D424,035; D430,158; D430,159; D431,562; D436,104.
Invention No. 55,358; 62,539; 69,060; 69,187 (Taiwan); No. 1,601,796; 1,907,875; 1,955,269 (Japan); European Patent 367,299; 414,281; 367,300; 367,298; UK 2,072,832; France 81/03938; Italy 1,138,713
rev. 03/02

Q u i c k R e f e r e n c e

Introduction

The Symbol PTC-960SL-III is a rugged hand-held computer that collects, stores, and transmits data. The terminal features:

- Standard 45-key keypad
- Integrated laser scanner
- Durable design that withstands low pressure, a 4 ft. (1.2 m) drop to concrete, vibration, shock, dust, and moisture
- Batch or Spectrum24[®] wireless communication.

About This Guide

This guide provides specific information on the following topics:

- *Unpacking the Terminal* on page 2
- *Parts of the PTC-960SL-III* on page 3
- *Connecting the Antenna* on page 3
- *Charging the Battery* on page 4
- *Connecting to Other Devices* on page 5
- *Controlling the Contrast and Backlight* on page 6
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- *Entering and Communicating Data* on page 8
- *Key Descriptions* on page 8
- *Scanning* on page 9
- *Maintaining the PTC-960SL-III* on page 10
- *Troubleshooting* on page 11.

Q u i c k R e f e r e n c e

Getting Started

The PTC-960SL-III package contains:

- PTC-960SL-III terminal
- 1,300 mAh Li-Ion rechargeable battery
- antenna (Spectrum24 terminals only)
- wrist strap
- *Guide to Maintaining NiCd and Li-ion Batteries*
- this Quick Reference Guide.

Additional accessories are shipped separately.

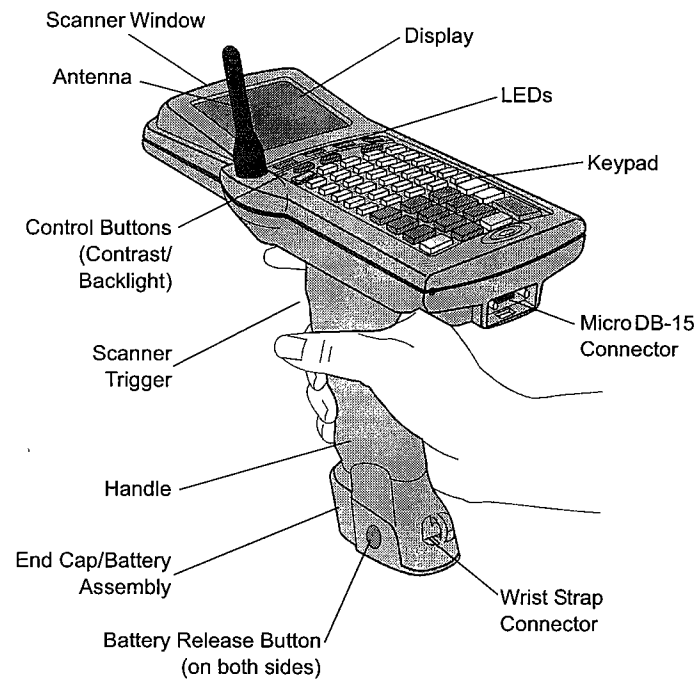
Unpacking the Terminal

Carefully remove all protective material from around the terminal and save the shipping container for later storage and shipping.

Verify that you received all equipment listed on the packing slip and inspect the equipment for damage. If anything is missing or damaged, contact the Symbol Technologies Support Center immediately.

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Parts of the PTC-960SL-III



Connecting the Antenna

If you have the Spectrum24 wireless terminal, screw the supplied antenna into the antenna connector on the top of the terminal.

Caution: Do not turn on the PTC-960SL-III or attempt to transmit data unless the antenna is attached; doing so may damage the radio.

Q u i c k R e f e r e n c e

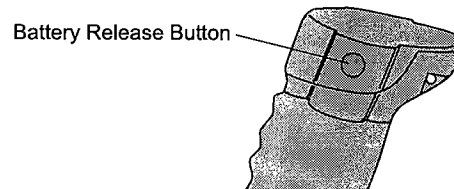
Installing the Battery

To install the battery:

1. Line up the end cap/battery assembly with the opening in the handle.
2. Slide the end cap/battery into the handle until the end cap presses against the body of the handle and the release buttons snap into place.
3. Pull on the end cap to make sure it is locked into place.

Removing the Battery

1. Turn off the terminal.
2. With your thumb and index finger, press the battery release buttons on both sides of the handle end cap, then pull the end cap and the attached battery out of the handle.



3. Refer to *Safety Information* on page 12 for instructions on properly disposing of the battery.

Charging the Battery

Charge the PTC-960SL-III's Li-Ion battery when you first receive the terminal and whenever the battery runs low. The Battery LED lights and a low battery message may display when the battery is running out of power.

Note: To charge the battery with a communication cradle or universal battery charger, see the instructions provided with the cradle/charger.

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1. Turn off the terminal and disconnect any attached accessories.
2. Connect the power module cable to the terminal's micro DB-15 connector.
3. Plug the other end of the power module into a 110-volt AC electrical outlet. The terminal's Charge LED lights.

Note: Outside of the U.S. or Canada, use a power module designed for that country's AC voltage supply (e.g., 220 volts).

4. Charge the battery for 8 hours. Charge at room temperature for fastest charging.
5. When charging is complete, unplug the power module from the electrical outlet, then disconnect it from the terminal.

Connecting to Other Devices

1. Turn off the terminal and the device (host computer or accessory) being connected.
2. Connect the 15-pin connector on the appropriate cable to the terminal's micro DB-15 connector.




Caution: Do not force the connectors if they do not connect easily; damage may result.

3. Connect the other end of the cable to the device.
4. Turn on the terminal and the attached device.
5. Follow the instructions for your application for operation.

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Controlling the Contrast and Backlight

Use the buttons on the terminal, shown below, to adjust the contrast and turn the backlight on or off.

Control Button	Meaning	Description
	Decrease Contrast	Decreases screen contrast.
	Increase Contrast	Increases screen contrast.
	Backlight	Turns the screen's backlight on and off.

Note: Repeatedly pressing the Decrease or Increase Contrast button loops the display screen through all 16 contrast settings.

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LED Indications

Four LEDs provide status information for the PTC-960SL-III.

LED	Meaning	Description
Batt	Battery	Lights red when the terminal's battery is running low. A low-battery message may also appear on the screen. Save your data, and recharge or replace the battery.
Func	Function	Lights red when you press a function key.
Chg	Charge	Lights red when the battery is charging.
Scan	Scan	Lights red when the terminal is scanning. Lights green when the terminal's scanner successfully reads a bar code.

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Entering and Communicating Data

You may enter data using the keyboard, by scanning bar codes, or through another device.

After collecting data, the PTC-960SL-III can transmit the data wireless, via an optional communication cradle, or via cable to a host computer, printer, or other accessory.

Key Descriptions

The following keys appear on the terminal keypad:

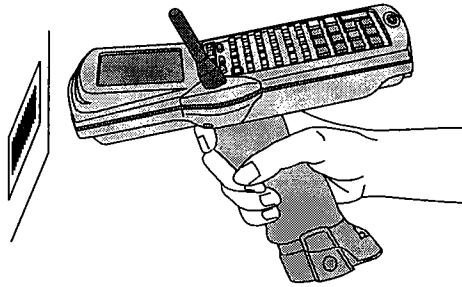
Key	Function
ON/OFF	Turns terminal on or off.
A through Z	Enters alpha and text characters.
0 through 9	Enters numeric characters.
F1 through F4	Programmable function keys. The application determines use; see the software or application documentation.
ENTER/YES	Indicates data entry is complete, an operation is complete, or the terminal is to begin an operation such as transmitting data to the host computer.
SEND	Instructs the terminal to transmit data to the host.
SHIFT	Activates function keys labeled on the overlay. Numeric keys are always available.

Q u i c k R e f e r e n c e

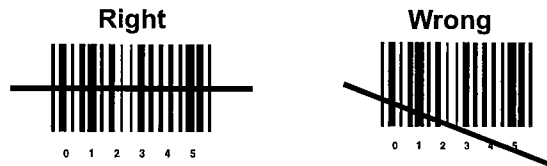
Scanning

To scan:

1. Press the scanner trigger on the terminal's handle to scan.
The Scan LED turns red when the laser is on.
2. Point the terminal at the bar code and press the trigger.



3. Ensure that the scan beam crosses all bars and spaces on the bar code symbol, as shown below:



Hold the scanner farther away for larger symbols, and closer for symbols with bars that are close together.

4. The LED turns from red to green for successful decodes, and the terminal may also beep.

Aiming: Hold at an Angle

Do not hold the scan window directly over the bar code. Laser light reflecting directly back into the scan window from the bar code is known as specular reflection. This strong light can "blind" the

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scanner and make decoding difficult. The area where specular reflection occurs is known as a "dead zone".

Maintaining the PTC-960SL-III

For optimal use, observe the following tips:

- Do not leave the terminal unattended in a freezer environment (0° to -22° F / -18° to -30° C) for more than 2 hours.
- Do not leave the terminal's battery unattended in a freezer environment for more than 1 hour as the battery will freeze and appear to be "dead." If this occurs, allow the battery to warm up to at least 65° F (18° C) before recharging it.
- To clean the PTC-960SL-III, slightly moisten a soft, clean, lint-free cloth with a mild, nonabrasive cleanser and wipe the outside surfaces. Do not use a paper towel.

Caution: Do not soak the cloth and do not spray or pour cleaning liquids directly onto the terminal.

Storing the PTC-960SL-III

Do not store the terminal in temperatures below -40° F (-40° C) or above 167° F (75° C) or in a damp or humid environment.

1. Transfer any data stored in the terminal to a host computer or another terminal, or print the data.
2. Make sure a copy exists of all the terminal's programs.
3. Disconnect any accessories from the terminal.
4. Recharge the terminal's battery or replace it with a charged battery.
5. Pack the terminal in its original packing material or in a padded box and put it in a safe place away from dust, dirt, humidity, and excessive heat or cold.
6. Charge the terminal's battery every two months.

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Troubleshooting

Symptom	Possible Cause	Action
Terminal does not power on.	Battery is not installed, or is installed improperly.	Re-install battery.
	Battery is not charged.	Charge battery.
Low Battery message, and/or Battery LED lights.	Battery is running low.	Recharge or replace battery.
Battery is dead.	Battery was not replaced after receiving <i>Low Battery</i> message.	Replace battery.
Cannot see characters on display.	Terminal is not powered on.	Press On/Off key.
	Battery is missing or dead.	Replace or recharge battery.
Scanner does not decode a bar code.	Bar code is unreadable.	Verify bar code is not defective, e.g., smudged or dirty.
	Scan window is dirty.	Clean scan window with lens tissues for use with eyeglasses. Do NOT use tissues with lotion.
	Terminal is improper distance from bar code.	Move terminal closer or farther from bar code.
	Terminal is at wrong angle to bar code.	Change angle of terminal in relation to bar code.
Terminal does not respond when keys are pressed.	Application was not successfully downloaded.	Ask System Administrator to repeat application download.
Wireless terminal is not communicating with host.	Terminal is out of range.	Change your location and re-transmit.
	Antenna is not attached, or attached improperly.	Re-attach antenna.
	Receiving equipment is not on or connected.	Ensure the receiving equipment is turned on and connected to host.

Contact the Symbol Support Center at 1-800-653-5350 if you experience any problems that you cannot solve.

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Safety Information

Using the Batteries

Follow these guidelines when handling the terminal's battery:

- Do not expose the battery to water, metal objects, direct sunlight, extreme heat, or fire.
- Do not attempt to disassemble the battery.
- Do not handle a damaged or leaking battery.

Disposing of Batteries

Li-Ion batteries contain chemically active materials that are hazardous to the environment; therefore, they must be disposed of properly. Never attempt to incinerate the battery; doing so may cause it to explode. Do not throw away the battery when it has reached the end of its useful life. Send it to an authorized battery disposal center for recycling according to country, federal, state and local laws.

Power Supply

Note: Use only a Symbol-approved power supply (p/n 20210-001) output rated 12Vdc and minimum 200mA. The power supply is certified to EN60950 with SELV outputs.

Hinweis: Benutzen Sie nur eine Symbol Technologies genehmigt Stromversorgung (20210-001) in den Ausgabe: 12Vdc und minimum 200mA. Die Stromversorgung ist bescheinigt nach EN60950 mit SELV Ausgaben

Q u i c k R e f e r e n c e

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.

Regulatory Information

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

Any changes or modifications to Symbol Technologies equipment, not expressly approved by Symbol Technologies, could void the user's authority to operate the equipment.



Laser Devices

Symbol products using lasers comply with US 21CFR1040.10, and IEC825-1:1993, EN60825-1:1994+A11:1996. The laser classification is marked on one of the labels on the device.

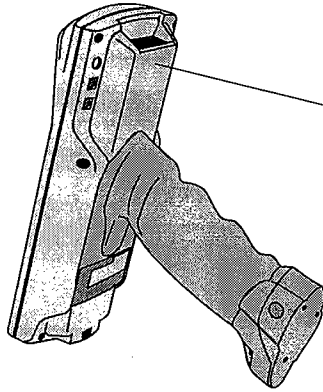
Class 1 Laser devices are not considered to be hazardous when used for their intended purpose. The following statement is required to comply with US and international regulations:

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

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

Q u i c k R e f e r e n c e

Scanner Labeling



LISTED ACCESSORY
I.T.E.

UL 8897 US FC CE0168
12V 200mA CN410

SEE QUICK REFERENCE GUIDE FOR PATENT INFORMATION
COMPLIES WITH PROTECTIVE ACT, SEC. 105(1) PROVISIONS 5-11994-1-11-1994
FCC: NHP141121 CANADA: 1543 103 2076 TYPE: LAA127
THIS DEVICE CONTAINS AN APPROVED RECYCLING MODULE

DANGER-LASER LIGHT WHEN OPEN. AVOID DIRECT EYE EXPOSURE.
ATTENTION-LUMIERE LASER EN CAS D'OUVERTURE. EXPOSITION DANGEREUSE AU FASCIAUL.
VORSICHT-LASERLICHT WENN ABDECKUNG GE'FFNET. NICHT DEM STRAHLE AUSSETZEN.

CAUTION

LASER LIGHT-DO NOT STARE INTO BEAM
DANGER-LASER LIGHT-DO NOT STARE INTO BEAM
CLASS II LASER PRODUCT

LASERSTRAHLE NICHT IN DEN STRAHLE BLEIBEN.
LASER-ALARM: LUMIERE LASER. NE PAS REGARDER
DANS LE FASCIAUL APPAREIL. LASER-NE CLASSE II
LASER LIGHT-DO NOT STARE INTO BEAM OR CLASS II
LASER PRODUCT DANGER-DO NOT STARE INTO LASER

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In accordance with Clause 5, IEC 0825 and EN60825, the following information is provided to the user:



<p>ENGLISH CLASS 1 CLASS 2</p>	<p>CLASS 1 LASER PRODUCT LASER LIGHT DO NOT STARE INTO BEAM CLASS 2 LASER PRODUCT</p>	<p>HEBREW</p>	<p>מתגר לייזר רמה 1 אור לייזר אין להביט אל תוך הזרם מתגר לייזר רמה 2</p>	<p>רמה 1 רמה 2</p>
<p>DANISH KLASSE 1 KLASSE 2</p>	<p>KLASSE 1 LASERPRODUKT LASERLYF SE IKKE IND I STRALEN KLASSE 2 LASERPRODUKT</p>	<p>ITALIAN CLASSE 1 CLASSE 2</p>	<p>PRODOTTO AL LASER DI CLASSE 1 LUCE LASER NON FISSARE IL RAGGIOPRODOTTO AL LASER DI CLASSE 2</p>	
<p>DUTCH KLASSE 1 KLASSE 2</p>	<p>KLASSE-1 LASERPRODUKT LASERLICHT NIET IN STRAAL STAREN KLASSE-2 LASERPRODUKT</p>	<p>NORWEGIAN KLASSE 1 KLASSE 2</p>	<p>LASERPRODUKT, KLASSE 1 LASERLYS IKKE STIRR INN I LYSSTRALEN LASERPRODUKT, KLASSE 2</p>	
<p>FINNISH LUOKKA 1 LUOKKA 2</p>	<p>LUOKKA 1 LASERTUOTE LASERVALO ÄLÄ TUJOTA SÄDETTÄ LUOKKA 2 LASERTUOTE</p>	<p>PORTUGUESE CLASSE 1 CLASSE 2</p>	<p>PRODUTO LASER DA CLASSE 1 LUZ DE LASER NÃO FIXAR O RAIO LUMINOSO PRODUTO LASER DA CLASSE 2</p>	
<p>FRENCH CLASSE 1 CLASSE 2</p>	<p>PRODUIT LASER DE CLASSE 1 LUMIERE LASER NE PAS REGARDER LE RAYON FIXEMENT PRODUIT LASER DE CLASSE 2</p>	<p>SPANISH CLASSE 1 CLASSE 2</p>	<p>PRODUCTO LASER DE LA CLASE 1 LUZ LASER NO MIRE FIJAMENTE EL HAZ PRODUCTO LASER DE LA CLASE 2</p>	
<p>GERMAN KLASSE 1 KLASSE 2</p>	<p>LASERPRODUKT DER KLASSE 1 LASERSTRAHLEN NICHT DIREKT IN DEN LASERSTRAHL SCHAUEN LASERPRODUKT DER KLASSE 2</p>	<p>SWEDISH KLASS 1 KLASS 2</p>	<p>LASERPRODUKT KLASS 1 LASERLJUS STIRRA INTE MOT STRALEN LASERPRODUKT KLASS 2</p>	

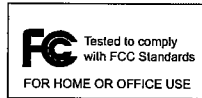


FCC RF Exposure Guidelines

This device was tested for typical body-worn operations with the holster providing a minimal spacing of 2.0 cm from the body to the back of the terminal/ antenna. To maintain compliance with FCC RF exposure compliance requirements, use only belt-clips, holsters, or similar accessories that maintain a 2.0 cm separation distance between the user's body and the back of the terminal, including the antenna. The use of third-party belt-clips, holsters and similar accessories should not contain metallic components in its assembly. The use of these accessories that do not satisfy these requirements may not comply with FCC RF exposure compliance requirements, and should be avoided.

Q u i c k R e f e r e n c e

Radio Frequency Interference Requirements



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 Frequency Interference Requirements - Canada

For non-radio devices:

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

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

Devices with integrated radios:

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

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

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

CE Marking and European Economic Area (EEA)



For Wideband Radio Devices:

RLAN's (2.4GHz) 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
- France, equipment is restricted to 2.4465 -2.4835 GHz frequency range
- Belgium outside usage, the equipment is restricted to 2.460 -2.4835 GHz frequency range
- Italy requires a user license for outside usage.

Statement of Compliance for radio devices integrated into terminals

Symbol Technologies, Inc., hereby, declares that this device is in compliance with the essential requirements and other relevant provisions of Directives 1999/5/EC, 89/336/EEC and 73/23/EEC. Declaration of Conformities may be obtained from: <http://www2.symbol.com/doc/>

Q u i c k R e f e r e n c e

Statement of Compliance for non-radio devices

Symbol Technologies, Inc., hereby declares that this device is in compliance with all the applicable Directives, 89/336/EEC, 73/23/EEC. A Declaration of Conformity may be obtained from: <http://www2.symbol.com/doc/>

Other Countries

2.4GHz Radio Devices:

Mexico - Restrict Frequency Range to: 2.450 - 2.4835 GHz.

Israel - Restrict Frequency Range to: 2.418 - 2.457 GHz

Service Information

Before you use the unit, it must be configured to operate in your facility's network and run your applications.

If you have a problem running your unit or using your equipment, contact your facility's Technical or Systems Support. If there is a problem with the equipment, they will contact the Symbol Support Center:

United States ¹	1-800-653-5350 1-631-738-2400	Canada	905-629-7226
United Kingdom	0800 328 2424	Asia/Pacific	337-6588
Australia	1-800-672-906	Austria/Österreich	1-505-5794-0
Denmark/Danmark	7020-1718	Finland/Suomi	9 5407 580
France	01-40-96-52-21	Germany/Deutschland	6074-49020
Italy/Italia	2-484441	Mexico/México	5-520-1835
Netherlands/Nederland	315-271700	Norway/Norge	+47 2232 4375
South Africa	11-8095311	Spain/España	91 324 40 00 Inside Spain
Sweden/Sverige	84452900		+34 91 324 40 00 Outside Spain
Latin America Sales Support	1-800-347-0178 Inside US +1-561-483-1275 Outside US		
Europe/Mid-East Distributor Operations	Contact local distributor or call +44 118 945 7360		

¹Customer support is available 24 hours a day, 7 days a week.

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