



SP5500



Pole Mounted Reader

Regulatory Guide

© 2016 Symbol Technologies LLC, a subsidiary of Zebra Technologies Corporation.

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>.

Regulatory Information

This guide applies to Model Number SP5500.

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

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

Zebra devices are professionally installed - the Radio Frequency Output Power will not exceed the maximum allowable limit for the country of operation.

Antennas: Use only the supplied or an approved replacement antenna. Unauthorized antennas, modifications, or attachments could cause damage and may violate regulations.

The device is compliant with the following values and antenna characteristics:

Antenna Characteristic	US & Canada
Max Conducted RF Power at Antenna Input	+ 27.0 dBm
Max Antenna Gain Allowed	+ 3dBil
Max Radiated Power Allowed	1W EIRP
Antenna Type	Circular Polarized Patch

Antennas

When using antennas not supplied by Zebra, the antennas must comply with all of the appropriate specifications and criteria listed in the Regulatory Certification table.

Wireless Device Country Approvals

Regulatory markings subject to certification are applied to the device signifying the radio is approved for use in the following countries and continents: United States and Canada.

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



CAUTION Operation of the device without regulatory approval is illegal.

Country Selection - Worldwide Version Only

Select only the country in which the device will be used. Any other selection will make the operation of this device illegal.



Warnings for Use of Wireless Devices

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

Potentially Hazardous Atmospheres - Fixed Installations

You are reminded of the need to observe restrictions on the use of radio devices in fuel depots, chemical plants etc. and areas where the air contains chemicals or particles such as grain, dust, or metal powders.



Safety in Hospitals

Wireless devices transmit radio frequency energy and may affect medical electrical equipment. When installed adjacent to other equipment, it is advised to verify that the adjacent equipment is not adversely affected.



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 Zebra Declaration of Conformity (DoC) at <http://www.zebra.com/doc>.

For further information on the safety of RF energy from wireless devices, see <http://responsibility.zebra.com/index.php/downloads/> which is located under Wireless Communications and Health.

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 filing.

- **Remote and Standalone Antenna Configurations**

To comply with FCC RF exposure requirements, antennas that are mounted externally at remote locations or operating near users at stand-alone desktop or similar configurations must operate with a minimum separation distance of 23cm from all persons.

IMPORTANT NOTE

Radiation Exposure Statement

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 23cm between the radiator and your body.

NOTE IMPORTANTE

Déclaration d'exposition aux radiations

Cet équipement est conforme aux limites d'exposition aux rayonnements IC établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de 23 cm de distance entre la source de rayonnement et votre corps.

Power Supply

This device must be powered from an 802.3at compliant power source which has been certified by the appropriate agencies, or by a Zebra approved UL LISTED ITE (IEC/EN60950-1) power supply with electrical ratings: output 24Vdc, min 3.25A, with a recommended ambient temperature of at least 40 degrees C. Use of alternative power supply will invalidate any approvals given to this unit and may be dangerous.

Use with Hearing Aids - FCC

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.

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.

Radio Frequency Interference Requirements- Canada

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

This device complies with Industry Canada's license-exempt RSSs. Operation is subject to the following two conditions: (1) This device may not cause interference; and (2) This device must accept any interference, including interference that may cause undesired operation of the device.

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 radio électrique 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.

Etiquette de marquage: Le terme "IC" avant la certification radio signifie que le produit est compatible avec le spécification Industrie Canada.

In accordance with the regulations of Industry Canada, this radio transmitter can operate with an antenna of a type and a maximum gain (or lower) approved for the transmitter by Industry Canada. With the aim of reducing the risk of radio interference to other users, the chosen antenna type and its gain should be selected so that the equivalent isotropically radiated power (e.i.r.p.) does not exceed the intensity necessary for the establishment of a satisfactory connection.

Conformément à la réglementation d'Industrie Canada, le présent émetteur radio peut fonctionner avec une antenne d'un type et d'un gain maximal (ou inférieur) approuvé pour l'émetteur par Industrie Canada. Dans le but de réduire les risques de brouillage radio électrique à l'intention des autres utilisateurs, il faut choisir le type d'antenne et son gain de sorte que la puissance isotrope rayonnée équivalente (p.i.r.e.) ne dépasse pas l'intensité nécessaire à l'établissement d'une communication satisfaisante.

This radio transmitter has been approved by Industry Canada to operate with the antenna types listed below and having a maximum gain allowable and the impedance required for each type of antenna. The antenna types not included in this list, or whose gain is higher than the maximum gain indicates, are strictly prohibited for the operation of the transmitter.

Le présent émetteur radio a été approuvé par Industrie Canada pour fonctionner avec les types d'antenne énumérés ci-dessous et ayant un gain admissible maximal et l'impédance requise pour chaque type d'antenne. Les types d'antenne non inclus dans cette liste ou dont le gain est supérieur au gain maximal indiqué, sont strictement interdits pour l'exploitation de l'émetteur.

Circular polarized patch: +3dBil / 50ohms



Zebra Technologies Corporation
Lincolnshire, IL USA
<http://www.zebra.com>

Zebra and the stylized Zebra head are trademarks of ZIH Corp., registered in many jurisdictions worldwide. All other trademarks are the property of their respective owners.

© 2015 Symbol Technologies LLC, a subsidiary of Zebra Technologies Corporation.



MN-002755-01 Rev. A - April 2016

