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This Zebra product may include Zebra Software, Commercial Third Party Software, and Publicly Available Software. Refer to the Product Reference Guide for complete copyright, conditions and disclaimer information.

**Warranty**

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

The CR0008-S Series cradle acts as a stand and charger for the LS4278 and DS6878 cordless scanners.

The CR0078-S Series cordless scanner cradle acts as a stand, charger and host communication interface for LS4278 and DS6878 cordless scanners. The CR0078-S Series cradle receives data from the scanner via a Bluetooth radio, and sends that data to the host through an attached cable. The cradle also charges the scanner's internal battery pack when the scanner is inserted. The scanner can be charged through the cradle from an external power supply or using a powered host cable.

The cradles can sit on a desktop or mount on a wall, computer work station or medical cart.

This document provides basic instructions on setting up and using the cradle. Unless otherwise noted, “cradle” refers to all configurations of the cradle. Any discussion of transmission of information refers specifically to the CR0078-S Series cradle.

Accessories

The following equipment may be needed:

- Power supply (see Power Supply on page 11).
- Mounting bracket for vertical cradle mounting (p/n 21-135001-01).

Save the shipping container for storing or shipping. Inspect all equipment for damage. If anything is damaged or missing, call an authorized Customer Support Representative immediately.
**Cradle Parts**

**Front**

- Pairing Bar Code
- Convertible Mount Hook
- Latches
- Charging/Communication Contacts

**Back**

- Mounting Hole
- Rubber Foot
- Power Port
- Desk/Wall Mount Converter Knob
- Charging/Communication Contacts
- Convertible Mount Hook

**Cradle Connections**

**Important:** Connect the interface cable and power supply (if necessary) in the following order to ensure proper operation of the scanner and cradle:

1. Insert the interface cable into the cradle’s host port.
2. Connect the other end of the interface cable to the host, if needed.
3. If necessary, connect the power supply to the cradle’s power port (if required by the interface, or to allow fast charging of the scanner).
4. Connect the appropriate cable to the power supply and an AC power source, if necessary.
5. If applicable, thread the interface cable over the cable support hook and run the host and power cables into their respective cable grooves.


**IMPORTANT** For healthcare environments, use cradle p/n CR0078-SC1009BWR and place the ferrite core (included in box with cradle) on the power supply (see *Power Supply Ferrite Installation* instructions included in the box).

### Changing the Host Interface

To connect to a different host, or to the same host through a different cable:

1. Unplug the power supply from the cradle.
2. Unplug the interface cable from the host.
3. Connect the interface cable to the new host, or the new interface cable to the existing host.
4. Reconnect the power supply, if required.

⚠️ If the scanner does not recognize the host, disconnect the power supply, then reconnect after connecting the host cable.
Mounting the Cradle

Horizontal Mount

1. Ensure the desk/wall mount converter knob is in the correct position, shown at right.

2. If mounting the cradle horizontally where no fastening is necessary, ensure the rubber feet are attached to the cradle. These feet provide traction and prevent surface damage.

Vertical Mount

To mount the cradle on a vertical surface using the Zebra accessory mounting bracket:

1. Use a Philips screwdriver to turn the desk/wall mount converter knob to the position shown at right. The front latches protract to engage the depressions at the base of the scanner’s handle.

2. Ensure the convertible mount hook on the front of the cradle is inserted with the hook facing up. If not, remove and reverse the hook so that it is in position to secure the scanner in place.

3. Attach the interface and power cables to the appropriate ports (see Cradle Connections on page 4).

4. Position the mounting bracket on the mounting surface.

5. Using the mounting holes on the mounting bracket, mark the surface to determine the location of the screw holes to drill (for a wall mount bracket template, refer to the DS6878 Product Reference Guide, p/n 72-131700-xx). It is recommended to use 4 screws to mount the bracket securely to the mounting surface.

6. Press the cables into the cradle cable grooves.
7. Align the mounting holes on the cradle with the screws on the mounting bracket and snap the cradle securely into place on the surface.

8. Place the scanner in the cradle.

**Inserting the Scanner in the Cradle**

To insert the scanner in the cradle:

1. Insert the scanner top first. When the cradle is mounted in a vertical position, ensure the convertible mount hook on the front of the cradle is inserted with the hook facing up. If not, remove and reverse the hook so that it is in position to secure the scanner in place.

2. Push the handle until it clicks into place, engaging the contacts in the cradle and scanner.

**Sending Data to the Host Computer**

The cradle receives data from the scanner via a wireless radio connection and transmits it to the host computer via the host cable. The scanner and cradle must be paired for successful wireless communication.

**Pairing**

Pairing registers a scanner to the cradle and the scanner and cradle can exchange information. The CR0078-S Series operates in two modes: scanner-to-cradle and multi scanner-to-cradle. In scanner-to-cradle mode, the scanner is paired to the cradle either by insertion into the cradle (if pairing on insertion is enabled), or by scanning the pairing bar code. In multi scanner-to-cradle mode, up to three scanners can be paired to one cradle. A multipoint bar code must be scanned to activate this feature. The pairing bar code is located on the front of the cradle. To pair the scanner with the cradle, scan the pairing bar code. A high-low-high-low beep sequence followed by a low-high beep sequence indicates successful pairing and

**Lost Connection to Host**

If scanned data does not transmit to the cradle’s host, ensure that all cables are firmly inserted and the power supply is connected to an appropriate AC outlet. If scanned data still does not transmit to the host, reestablish a connection with the host:

1. Disconnect the power supply from the cradle.
2. Disconnect the host interface cable from the cradle.
3. Wait three seconds.
4. Reconnect the host interface cable to the cradle.
5. Reconnect the power supply to the cradle, if required.
6. Reestablish pairing with the cradle by scanning the pairing bar code.

*NOTE* The CR0078-S Series does not always require a power supply whereas the CR0008-S Series always requires a power supply.

**Charging the Scanner Battery in the Cradle**

To charge the scanner battery, place the scanner in the cradle (see *Inserting the Scanner in the Cradle on page 7*). The battery begins charging when the scanner LED indicator starts flashing green. A complete charge of a fully discharged battery can take up to three hours using external power and up to five hours using non-external cable power.

**LED Charging Indications**


**Using a Host Interface to Supply Power**

Some hosts can provide power to the cradle via the host interface, instead of an external power supply.
Troubleshooting

If the cradle does not work after following the previous procedures:

• Check the system power.
• Check for loose cable connections.
• Check that the scanner is inserted properly in the cradle.
• Check that the host settings are correct and the cradle is connected to the appropriate port on the host.


Related Documentation

• [LS4278 Quick Reference Guide, p/n 72-69835-xx](http://www.zebra.com/support)
• [DS6878 Quick Start Guide, p/n 72-132659-xx](http://www.zebra.com/support)

These documents are available at the following web site: [http://www.zebra.com/support](http://www.zebra.com/support).
Regulatory Information

This guide applies to model numbers STB4278 and STB4208. All Zebra 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 web site: http://www.zebra.com/support.

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

Only use Zebra approved and UL listed accessories, battery packs and battery chargers.

Radio Modules

The STB4278 contains an approved radio module. This module is identified below.

Bluetooth™ Radio, Type: LMX5452

Bluetooth® Wireless Technology

This is an approved Bluetooth® product. For more information or to view end product listing, visit the following web site: https://www.bluetooth.org/tpg/listings.cfm.

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.

Potentially Hazardous Atmospheres - Vehicles Use

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) and any other area where you would normally be advised to turn off your vehicle engine.

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 Aircraft**

Switch off your wireless device whenever you are instructed to do so by airport or airline staff. If your device offers a “flight mode” or similar feature, consult airline staff as to its use in flight.

**Safety in Hospitals**

Wireless devices transmit radio frequency energy and may affect medical electrical equipment. Wireless devices should be switched off wherever you are requested to do so in hospitals, clinics or healthcare facilities. These requests are designed to prevent possible interference with sensitive medical equipment.

**Pacemakers**

Pacemaker manufacturers recommend that 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 minimize 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.

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**FCC 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 the following web site: http://www.zebra.com/doc.

**Handheld Devices**

To comply with FCC RF and EU RF exposure requirements, this device must be operated in the hand with a minimum separation distance of 20cm or more from a person’s body. Other operating configurations should be avoided.

**Power Supply**

Use ONLY a LISTED, Type no. 50-14000 (5Vdc/850mA min.), or PWRS-14000 (5Vdc/850mA min.), Direct Plug-in power supply, marked Class 2 or LPS (IEC60950-1, SELV). Use of alternative power supply will invalidate any approvals given to this device and may be dangerous.
Batteries

Taiwan - Recycling

EPA (Environmental Protection Administration) requires dry battery producing or importing firms in accordance with Article 15 of the Waste Disposal Act are required to indicate the recycling marks on the batteries used in sales, giveaway or promotion. Contact a qualified Taiwanese recycler for proper battery disposal.

To charge the mobile device battery, the battery and charger temperatures must be between +32 °F and +104 °F (0 °C and +40 °C).

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

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.

Radio Transmitters

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

Label Marking: The Term “IC:” before the radio certification only signifies that Industry Canada technical specifications were met.
Marking and European Economic Area (EEA)

Statement of Compliance

For STB4278:

The full text of the EU Declaration of Conformity is available at the following internet address: www.zebra.com/doc

For STB4208:
Zebra hereby declares that this device is in compliance with all applicable Directives, 2014/30/EU, 2014/35/EU and 2011/65/EU.

The full text of the EU Declaration of Conformity is available at the following internet address: www.zebra.com/doc.

Country Approval

Regulatory markings, subject to certification, are applied to the device signifying the radio(s) are approved for use in the following countries: United States, Canada, Australia, China, S. Korea, Japan & Europe.

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

NOTE: For 2.4GHz Products, Europe includes: Austria, Belgium, Bulgaria, 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.

Operation of the device without regulatory approval is illegal.

Japan (VCCI) - Voluntary Control Council for Interference

Class B ITE

この装置は、情報処理装置等電波障害自主規制協議会（VCCI）の基準に基づくクラスB報技術装置です。この装置は、家庭環境で使用することを目的としていますが、この装置がラジオやテレビジョン受信機に近接して使用されると、受信障害を引き起こすことがあります。取扱説明書に従って正しい取り扱いをして下さい。

This is a Class B product based on the standard of the Voluntary Control Council for Interference from Information Technology Equipment (VCCI). If this is used near a radio or television receiver in a domestic environment, it may cause radio interference. Install and use the equipment according to the instruction manual.
Korean Warning Statement for Class B ITE

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<tr>
<th>기종별</th>
<th>사용자 안내문</th>
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<tr>
<td>B급 기기 (가정용 방송통신기기)</td>
<td>이 기기는 가정용 (B급)으로 전자파적합등록을 한 기기로서 주로 가정에서 사용하는 것을 목적으로 하며, 모든 지역에서 사용할 수 있습니다.</td>
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Other Countries

Brasil: Declarações Regulamentares para STB4278
Nota: A marca de certificação se aplica ao Transceptor, modelo STB4278. 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

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

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

Korean

당해 무선설비는 운용 중 전파혼신 가능성이 있음

Taiwan

低功率電波輻射性電機管理辦法

第十二條
經型式認證合格之低功率射頻電機，非經許可，公司、商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性及功能。

第十四條
低功率射頻電機之使用不得影響飛航安全及干擾合法通信；經發現有干擾現象時，應立即停用，並改善至無干擾時方得繼續使用。

前項合法通信，指依電信規定作業之無線電通信。

低功率射頻電機須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾。

Waste Electrical and Electronic Equipment (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.
Quick Reference Guide


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.


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 consentire il riciclaggio. Per informazioni sulle modalità di restituzione, visitare il seguente sito Web: http://www.zebra.com/weee.


Service Information

If you have a problem with your equipment, contact Zebra support for your region. For contact information, go to: http://www.zebra.com/support.

When contacting support, please have the following information available:
- Serial number of the unit
- Model number or product name
- Software type and version number

Zebra responds to calls by e-mail, telephone or fax within the time limits set forth in service agreements. If your problem cannot be solved by Zebra Support, you may need to return your equipment for servicing and will be given specific directions. Zebra is not responsible for any damages incurred during shipment if the approved shipping container is not used. Shipping the units improperly can possibly void the warranty.

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

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