CR8288 Standard and Presentation Cradle

Quick Start Guide

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Introduction

The cradles serve as a charger, radio communication interface, and host communication interface for the DS8288 cordless digital scanner. There are two versions of the cradle: The standard cradle (CR8288-SC), and presentation cradle (CR8288-PC).

- The CR8288-SC standard cradle sits on a desktop or mounts on a wall and charges the DS8288. This cradle also provides host communication by receiving scanner data via Bluetooth and sending that data to the host through an attached cable. The cable provides power to the cradle from the host or optional power supply (if supported).
- The CR8288-PC presentation cradle sits on a desktop and charges the DS8288 while allowing barcode scanning in presentation mode. This cradle also provides host communication by receiving scanner data via Bluetooth and sending that data to the host through an attached cable. The cable provides power to the cradle from the host or optional power supply (if supported).

NOTE: No other scanner is compatible with the CR8288-SC and CR8288-PC.

Unpacking the Cradle

Unpack and examine all contents before setting up the cradle.

1. Carefully remove the cradle from the box.
2. Verify the following items are in the box:
   - CR8288 cradle
   - Regulatory guide
3. Inspect the contents for any damage. If any equipment is missing or damaged, contact the Global Customer Support Center immediately.

Additional Cradle Accessories

You may need to purchase additional accessories to charge or mount the cradle.

Item	Description
Power Supply PWR-BGA12V50W0WW	Provides a faster charging time. Sold separately at zebra.com.
M4 Screws	Used to mount the cradle. Not available from Zebra.
Wall Mount Bracket BRKT-AP0081W-04	Supports a mounted presentation cradle. Sold separately at zebra.com. **NOTE:** For Healthcare cradles only: A special bracket is required for workstations.
3M Dual Lock Fasteners	Used to mount the cradle. Sold separately at zebra.com.

Service Information

If you have a problem with your equipment, contact Zebra Global Customer Support for your region. Contact information is available at: zebra.com/support.

When contacting support, please have the following information available:

- Serial number of the unit
- Model number or product name
- Software/firmware type and version number

Zebra responds to calls by email, telephone, or fax within the time limits set forth in support agreements.

If your problem cannot be solved by Zebra Customer 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 Zebra business product from a Zebra business partner, contact that business partner for support.

Standard Cradle Features

Main features of the CR8288-SC.

Figure 1 CR8288-SC Top Features

Table 1 CR8288-SC Top Features

	Item	Description
1a	Scanner latch	Removable scanner latch (horizontal desk mount position)
1b[a]		Removable scanner latch (vertical wall mount position)
2	Pairing barcode	Scan to pair scanner with cradle.
3	LED	Indicates charging status.
4	Page button	Press to page connected scanners.
5	Charge pad	Provides charging and communication with a scanner.

[a] Go to Mounting the CR8288-SC Standard Cradle to learn how to reposition the latch.

Figure 2 CR8288-SC Bottom Features

Table 2 CR8288-SC Bottom Features

Number	Item	Description
1	Rubber feet	Prevents the cradle from moving around a desktop.

Table 2 CR8288-SC Bottom Features (Continued)

Number	Item	Description
2	Cable groove	Provides space for cables to exit while the cradle sits flush against a surface.
3	USB-C port	Charges the cradle and facilitates communication with a host device. Can provide additional charging power to a cradle that is also plugged into a host device with the an RJ-50 cable.
4	Interface cable support hook	Guides the cable through the cable groove.
5	Keyhole mounting holes	Mounting holes for fasteners or for the optional bracket accessory BRKT-AP0081W-04.
6	Mounting holes	M4 threaded screw holes.
7	RJ-50 port	Charges the cradle and facilitates communication with a host device.
8	Magnet (Healthcare models only)	Helps the scanner stay in place when the cradle is mounted vertically.

Presentation Cradle Features

Main features of the CR8288-PC.

Figure 3 CR8288-PC Top Features

Table 3 CR8288-PC Top Features

Number	Item	Description
1	Pairing barcode	Pairs the cradle with a scanner when scanned.
2	Charge pad	Provides charging and communication with a scanner.
3	LED	Indicates charge status.
4	Page button	Initiates paging status on a paired scanner when pressed.

Figure 4 CR8288-PC Bottom Features

Table 4 CR8288-PC Bottom Features

Number	Item	Description
1	Rubber feet	Provides traction on a horizontal surface.
2	Mounting holes	M4 threaded screw holes.
3	RJ-50 port	Provides charging and communication with a host device.

Table 4 CR8288-PC Bottom Features (Continued)

Number	Item	Description
4	USB-C port	Provides charging and communication with a host device.

Connecting the Cradle

Connect the cradle to a host device or power source to provide charging and/or communication with the host device. Both the USB-C and RJ50 cables provide communication and power.

You can plug in either the RJ-50 or USB-C cable to the cradle. Connect the cable to a power source to charge the scanner, or to a host device to provide both power and communication between the cradle and host device.

NOTE: You can use two cables simultaneously to increase charging speed; connect the RJ-50 cable to a host computer and the USB-C cable to a host or 5 VDC wall adapter.

- When both cables are connected, the RJ50 becomes the active path for all data.
- If the RJ50 does not have a valid host, the data path falls back to USB-C.
- Power is always consumed from the cable that provides faster charging.
- The cradle resets every time a change in cable configuration occurs.
- the USB BC 1.2 detection is supported on both RJ50 and USB-c connectors. Connect to BC 1.2-capable or USB-C host ports for fastest USB charging.

1. Connect the cable to the host computer or power supply.

   If you are using the USB-C cable, use the USB-C to USB-A (CBL-U67-S07ZAR) or USB-C to USB-C (CBA-U65-S07ZAR) with a power adaptor or host computer.

2. Insert a cable into the cradle.

   The cable should connect to the cradle before the host.

3. Route the cable through the cradle cable grooves, using the tabs to keep the cable in place.

Standard Cradle	Presentation Cradle
RJ-50 cable	RJ-50 cable
USB-C cable	USB-C cable

4. Pair the digital scanner to the cradle by inserting it in the cradle or by scanning the pairing code.

The scanner is ready to charge or transmit barcode data to the host device.

Changing the Host Interface

There are times when you have to change to a different host device or use a different cable.

1. Unplug the interface cable from the host.
2. Unplug the power supply from the cradle.

3. Connect the interface cable to the new host, or the new interface cable to the existing host.
4. If necessary, reconnect the power supply.
5. If necessary, scan the appropriate host barcode (for non-autodetected interfaces). Refer to the scanner's Product Reference Guide.

DC Power Supply

You can connect the cradle to both a host device and a power supply simultaneously. Zebra recommends using 12 VDC power if you require the fastest charging speed.

When a host device does not provide sufficient power to power the cradle and charge the scanner, you can provide additional DC power:

- Use an RJ50 connected to a host and a USB-C cable connected to a DC power supply source.
- Use a CBA-U42-S07PAR cable to connect the cradle to both a DC power supply and the host.

CAUTION:

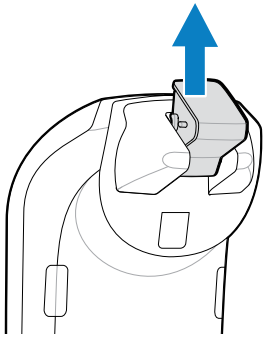
- This product must be connected with a power cord to a socket outlet with an earthing connection.
- Always connect the cradle, then the DC power supply and finally the hosts device.
- Always disconnect the DC power supply first before disconnecting the cable from the host. Disconnecting the host cable first may cause the cradle to not recognize the new host.

Mounting the CR8288-SC Standard Cradle

Mount the cradle on a vertical surface.

NOTE: You can use the hardware options to mount the cradle or stick the 3M Dual Lock Fasteners on the cradle and surface. Refer to the fastener documentation for more information.

1. Ensure the cradle latch faces downward.
   a. Push the latch out of its slot.



   b. Orient the latch such that its tab faces toward the cradle.
   c. Slide the latch into its slot until it clicks audibly into place.

2. Slide the cradle magnet down towards the bottom of the cradle. (Healthcare models only).
3. Position the cradle on the mounting surface and mark the top and bottom edges.
4. Measure in from your markings to determine where to drill the holes.
   - To use the threaded screw holes, measure in 65 mm (2.5 in.) from the top and 100 mm (3.9 in.) from the bottom.
   - To use the keyhole mounts, measure in 55 mm (2.2 in.) from the top and 74.5 mm (2.9 in.) from the bottom.
5. Pre-drill holes to accommodate the desired fastener.
6. Attach all required interface and power cables.
7. Press the cables into the cable grooves.
8. Secure the fasteners to the wall/vertical surface.
9. Secure the cradle to the fastener.
   - To use the threaded screw holes, use a screwdriver to secure two M4 screws to the cradle. The screws can penetrate a maximum of 5 mm (0.2 in.) into the cradle.
   - To use the keyhole mounts, hang the cradle on the fastener.

The cradle is mounted, and you can insert the scanner.

Inserting the DS8288 into the Standard Cradle

The CR8288-SC standard cradle charges the scanner battery. The insertion process is the same for horizontal and mounted cradles.

- For mounted cradles, ensure the latch points upward.
- For horizontal cradles, ensure the latch points downward.

1. Slide the cradle magnet down towards the bottom of the cradle. (Healthcare models only).
2. Insert the top of the scanner into the cradle.
3. Press the handle towards the cradle until the bottom of the cradle is secure in the charging pad.

Mounting the CR8288-PC Presentation Cradle

Mount the cradle on a surface angled up to 75°.

NOTE: You can use the hardware options to mount the cradle or stick the 3M Dual Lock Fasteners on the cradle and surface. Refer to the fastener documentation for more information.

1. Position the cradle on the mounting surface and mark the top and bottom edges.
2. Measure in 28.5 mm (1.1 in.) from the top and 50.5 mm (2.0 in.) from the bottom.
3. Pre-drill holes to accommodate two threaded screws. Drill the holes 45.5 mm (1.8 in.) apart.

4. Attach all required interface and power cables.
5. Press the cables into the cable grooves.
6. Secure the screws through the mounting surface.
7. Use a screwdriver to secure the M4 screws to the cradle. The screws can penetrate a maximum of 5 mm (0.2 in.) into the cradle.

The cradle is mounted, and you can insert the scanner.

Inserting the DS8288 Scanner into the Presentation Cradle

The presentation cradle charges the scanner battery and supports hands-free scanning in Presentation Mode. The insertion process is the same for horizontal and mounted cradles.

1. Insert the scanner straight down into the cradle.
2. Rotate the scanner forward to engage the bottom of the scanner with the charging pad.

Data Transmission to the Host Computer

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

Pairing

Pairing registers a scanner to the cradle so that the scanner and cradle can exchange information.

The CR8288-SC and CR8288-PC operate in two modes: Point-to-Point and Multipoint-to-Point. In Point-to-Point mode, pair the digital scanner to the cradle either by inserting it in the cradle (if pair on contacts is enabled) or by scanning the pairing barcode.

In Multipoint-to-Point mode, you can pair up to seven scanners to one cradle.

To pair the scanner with the cradle, insert the scanner in the cradle or scan the pairing barcode. (Pairing on insertion into the cradle is enabled by default.)

NOTE: The pairing barcode that connects the digital scanner to a cradle is unique to each cradle. Do not scan data or parameters until pairing completes.

Connecting to a Host

Connect the cradle to a host device. This enables the DS8288 to share scan data and configuration information with the host.

1. Connect the host to the cradle.
2. Pair the scanner by inserting it into the cradle. The scanner indicates a successful pairing with a low/high beep.
3. Ensure the cradle detects the correct host type.
   - If the cable automatically detects the correct host type, the scanner is ready for use.

- If the cable fails to detect the correct host type, scan the relevant barcode in the host type section.

Reconnecting to the Host

Reestablish a connection with the host computer by disconnecting and reconnecting the cradle.

1. Disconnect the power supply from the cradle.
2. Disconnect the host interface cable from the cradle.
3. Wait 3 seconds.
4. Reconnect the host interface cable to the cradle.
5. Reconnect the power supply to the cradle.
6. Reestablish pairing with the cradle by inserting the scanner in the cradle or scanning the pairing barcode.

   Pairing on insertion into the cradle is enabled by default.

Cradle LED Indications

This table describes the standard and presentation cradle status LED indications.

Table 5 Cradle LED Indications

LED	Indication
Standard Use	
Green (stays on)	Power Up.
Radio Indications	
Green (off, then on)	Bluetooth connection established.
Blue	Page button pressed.
Blue (fast/fast/slow)	Paging in progress.
Charging Indications	
Amber (stays on)	Pre-charging.
Amber blinking	Charging.
Green (stays on)	Fully charged.
Amber fast blinking	Charging error. See Troubleshooting for more information.
Red blinking	The battery is charging, but it is at end of life. Replace it with a new battery.
Virtual Tether Alarm	
Fast blinking alternating green and red	The scanner disconnects over Bluetooth from the cradle (Virtual Tether Alarm enabled).
Maintenance Indications	

Table 5 Cradle LED Indications (Continued)

LED	Indication
Red blinking	Firmware installation in progress.

Table 6 Host-Controlled Cradle LED Indications

LED	Indication
123Scan	
Green (slow blinking)	Scanner connected to 123Scan.
Red (fast blinking)	File being transferred to the scanner (parameters and firmware).
Red (slow blinking)	Firmware activated on the scanner, loaded into memory.
Green	Programming complete (parameters and firmware).
Red	Error state.
Scanner Management Service (SMS)	
Red blinking (both scanner and cradle)	Loading the SMS package to scanner.

Troubleshooting

If the cradle does not work after following the previous procedures, try the troubleshooting steps outlined in this section.

- 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.
- If water spills in the charge pad area, the unit might not function properly. Turn the power off and tilt the cradle to drain as much liquid as possible. Do not shake the cradle. Use a paper towel to dry the outside surfaces, and expose the unit to room conditions for up to 24 hours to allow the liquid to dry completely.