

# **ZEBRA HC50 Touch Computer User Guide**

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**ZEBRA HC50 Touch Computer** 



# **Specifications**

Model: HC20/HC50Type: Touch Computer

• Quick Start Guide: MN-004746-01EN Rev A

• Copyright: 2023/11/06

• Manufacturer: Zebra Technologies Corporation

## **Product Information**

The HC20/HC50 Touch Computer is a versatile device designed to provide users with a range of features for efficient communication, data capture, and multimedia functions. With front and rear cameras, audio capabilities, data capture LED, and various sensors, this touch computer offers a comprehensive solution for various applications.

#### **Features**

#### **Front View Features**

- Front Camera: Takes photos and videos (available on some models).
- Charging/Notification LED: Indicates battery charging status and application-generated notifications.
- Speaker/Receiver: Use for audio playback in Handset and Speakerphone mode.
- Data Capture LED: Indicates data capture status.
- Light/Proximity Sensor: Determines ambient light for controlling display backlight intensity and proximity for turning off the display in handset mode.
- Touch Screen
- Speaker
- · Cradle Charging Contacts
- USB-C Connector with plug
- Microphone
- · Scan Button
- Programmable Button

## **Rear View Features**

- Microphone: Use for communication and noise cancellation.
- NFC Antenna: Provides communication with other NFC-enabled devices.
- Alert button: Red alert button for emergency situations.
- Battery Release Latches: Press to remove the battery.
- PowerPrecision Lithium-ion Battery: Provides power to the device.

#### **Product Usage Instructions**

## Unpacking:

- Carefully remove all protective material from the device and save the shipping container for later storage and shipping.
- 2. Inspect the equipment for damage. If any equipment is missing or damaged, contact the Global Customer Support center immediately.
- 3. Prior to using the device for the first time, remove the protective shipping film that covers the scan window, display, and camera window.

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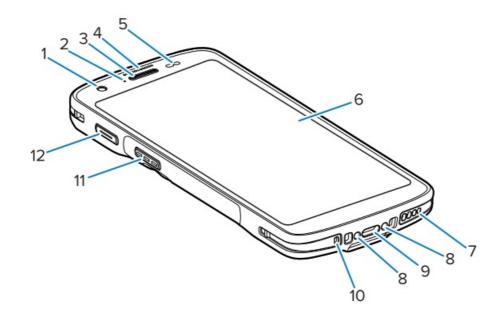
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# Unpacking

- 1. Carefully remove all protective material from the device and save the shipping container for later storage and shipping.
- 2. Verify that the following were received:
  - · Touch computer
  - · PowerPrecision Lithium-ion battery
  - Regulatory Guide.
- 3. Inspect the equipment for damage. If any equipment is missing or damaged, contact the Global Customer Support center immediately.
- 4. Prior to using the device for the first time, remove the protective shipping film that covers the scan window, display and camera window.

#### **Features**

Figure 1 Front View

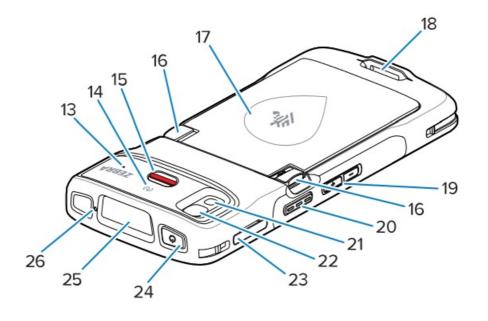


Number	Item	Function
1	Front Camera	Takes photos and videos (available on some models).
2	Charging/Notification LED	Indicates battery charging status while charging and a pplication-generated notifications.
3	Speaker/Receiver	Use for audio playback in Handset and Speakerphone mode.
4	Data Capture LED	Indicates data capture status.
5	Light/Proximity Sensor	Determines ambient light for controlling display backlig ht intensity and proximity for turning off the display whe n in handset mode.

	1
Touch Screen	Displays all information needed to operate the device.
Speaker	Provides audio output for video and music playback. P rovides audio in speakerphone mode.
Cradle Charging Contacts	Provides device charging via cradles and accessories.
USB-C Connector with plug	Provides USB host, client communications, and device charging via cables and accessories.
Microphone	Use for communications in Handset mode.
Scan Button	Initiates data capture (programmable).
Programmable Button	Typically used for Push-to-Talk communications. Wher e regulatory restrictions exist <sup>a</sup> _for Push-to-Talk VoIP communication, this button is configurable for use with other applications.
	Speaker Cradle Charging Contacts USB-C Connector with plug Microphone Scan Button

# Pakistan, Qatar

Figure 2 Rear View



#### **Table 2 Rear View Features**

Number	Item	Function
13	Microphone	Use for communication and noise cancellation.
14	NFC Antenna	Provides communication with other NFC-enabled devices.
15	Alert button	Red alert button.
16	Battery Release Latches	Press to remove the battery.
17	PowerPrecision Lithium-ion Battery	Provides power to the device.

18	Hand strap mounting	Provides mounting point for Basic Hand Strap accessory.
19	Volume Up/Down Button	Increase and decrease audio volume (programmable).
20	Scan Button	Initiates data capture (programmable).
21	Camera Flash	Provides illumination for the camera and operates as a flashlight.
22	Rear Camera	Takes photos and videos.
23	Card Holder	Holds a SIM card and an SD card.
24	Power Button	Turns the display on and off. Press and hold to reset the device or power it off.
25	Scanner Exit Window	Provides data capture using the imager (available on s ome models).
26	Microphone	Use for communications in Speakerphone mode.

# **Setting Up the Device**

To start using the device for the first time.

- 1. Install a micro secure digital (SD) card (optional).
- 2. Install the battery.
- 3. Charge the device.

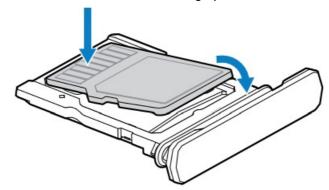
# Installing a microSD Card

**CAUTION**: Follow proper electrostatic discharge (ESD) precautions to avoid damaging the microSD card. Proper ESD precautions include, but are not limited to, working on an ESD mat and ensuring that the operator is properly grounded.

1. Pull the card holder out of the device.



2. Place the microSD card, contact end first, with contacts facing up, into the card holder.



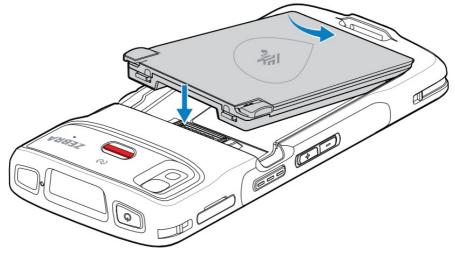
- 3. Rotate the microSD card down.
- 4. Press the card down into the card holder and ensure that it seats properly.
- 5. Re-install the card holder.



## **Installing the Battery**

**NOTE**: User modification of the device, particularly in the battery well, such as labels, asset tags, engravings, and stickers, may compromise the intended performance of the device or accessories. Performance levels such as sealing (Ingress Protection (IP)), impact performance (drop and tumble), functionality, and temperature resistance could be affected. DO NOT put any labels, asset tags, engravings, or stickers in the battery well.

1. Insert the battery, bottom first, into the battery compartment in the back of the device.



2. Press the battery down into the battery compartment until the battery release latches snap into place.

# **Charging the Device**

**CAUTION**: Ensure that you follow the guidelines for battery safety described in the device Product Reference Guide. Use one of the following accessories to charge the device and/or spare battery.

**Table 3 Charging and Communication** 

	Part Number	Charging		Communication	
Description		Battery (In Device)	Spare Batt ery	USB	Ethernet
1-Slot Charge Only Cradl e	CRD-HC2L5L-BS1CO	Yes	No	No	No
1-Slot Charge Only with S pare Battery Cradle	CRD-HC2L5L-2S1D1B	Yes	Yes	No	No
4-Slot Battery Charger	SAC-HC2L5L-4SCHG	No	Yes	No	No
5-Slot Charge Only Cradl e	CRD-HC2L5L-BS5CO	Yes	No	No	No

#### **Main Battery Charging**

Before using the device for the first time, charge the main battery until the green Charging/Notification light-emitting diode (LED) remains lit. Use a cable or a cradle with the appropriate power supply to charge the device.

## The following battery is available:

Standard Healthcare 3,800 mAh PowerPrecision LI-ON Battery with BLE Beacon **part number**: BTRY-TC2K-2XMAXB-01 The device's Charging/Notification LED indicates the battery charging status in the device. The standard battery charges from fully depleted to 80% in less than 1 hour and 20 minutes. The extended battery charges from fully depleted to 80% in less than 1 hour and 50 minutes.

**NOTE**: Charge batteries at room temperature with the device in Sleep mode.

## Table 4 Charging/Notification LED Charging Indicators

State	Indication
Off	The device is not charging. The device is not inserted correctly in t he cradle or connected to a power source. The charger/cradle is n ot powered.
Slow Blinking Amber (1 blink every 4 secon ds)	The device is charging.
Slow Blinking Red (1 blink every 4 seconds )	The device is charging, but the battery is at the end of its useful lif e.
Solid Green	Charging complete.

Solid Red	Charging is complete, but the battery is at the end of its useful life.	
Fast Blinking Amber (2 blinks/second)	<ul> <li>Charging error, e.g.:</li> <li>Temperature is too low or too high</li> <li>Charging has gone on too long without completion (typic ally eight hours).</li> </ul>	
Fast Blinking Red (2 blinks/second)	<ul> <li>Charging error but the battery is at the end of its useful life., e.g.:</li> <li>Temperature is too low or too high</li> <li>Charging has gone on too long without completion (typic ally eight hours).</li> </ul>	

# **Spare Battery Charging**

The Spare Battery Charging LEDs on the 4-Slot Battery Charger indicate the status of the spare battery charging. The standard and extended battery charges from fully depleted to 90% in less than 4 hours.

LED	Indication		
Solid Amber	The spare battery is charging.		
Solid Green	The spare battery charging is complete.		
Solid Red	The spare battery is charging, and the battery is at the end of its us eful life. Charging is complete, and the battery is at the end of its us eful life.		
Fast Blinking Red (2 blinks/second)	Error in charging; check the placement of the spare battery, and the battery is at the end of its useful life.		
Off	No spare battery in the slot. The spare battery is not placed in the slot correctly. The cradle is not powered.		

## **Charging Temperature**

Charge batteries in temperatures from 5°C to 40°C (41°F to 104°F). The device or cradle always performs battery charging in a safe and intelligent manner. At higher temperatures (for example: approximately +37°C (+98°F)) the device or cradle may for small periods of time alternately enable and disable battery charging to keep the battery at acceptable temperatures. The device and cradle indicates when charging is disabled due to abnormal temperatures via its LED.

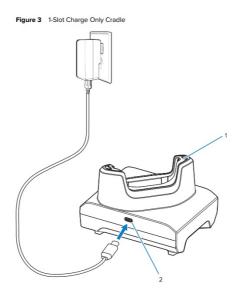
# 1-Slot Charge Only Cradle

This cradle provides power to the device.

**CAUTION**: Ensure that you follow the guidelines for battery safety described in the Product Reference Guide.

## The 1-Slot Charge Only Cradle:

- Provides 5 VDC power for operating the device.
- · Charges the device's battery.



1	Device charging slot with shim.
2	USB power port.

# 1-Slot Charge Only with Spare Battery Cradle

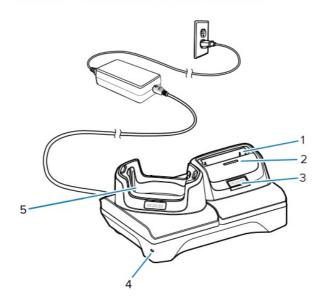
This cradle provides power for charging a device and a spare battery.

**CAUTION**: Ensure that you follow the guidelines for battery safety described in the Product Reference Guide.

# The 1-Slot Charge Only with Spare Battery Cradle:

- Provides 5 VDC power for operating the device.
- Charges the device's battery.
- Charges a spare battery.

Figure 4 1-Slot Cradle with Spare Battery Slot



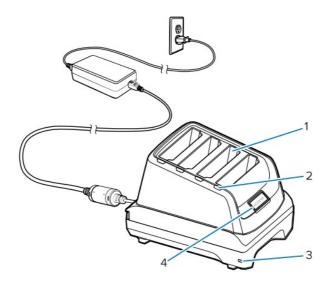
1	Spare battery charging slot.
2	Spare battery charging LED
	USB-C port
3	The USB-C port is a service connector only for firmware upgrades and is not intended for power ch arging.
4	Power LED
5	Device charging slot with shim

# **4-Slot Battery Charger**

This section describes how to use the 4-Slot Battery Charger to charge up to four device batteries.

**CAUTION**: Ensure that you follow the guidelines for battery safety described in the Product Reference Guide.

Figure 5 4-Slot Battery Charger



1	Battery Slot
2	Battery Charging LED
3	Power LED
4	USB-C port  The USB-C port is a service connector for firmware upgrade only and not intended for power char ging.

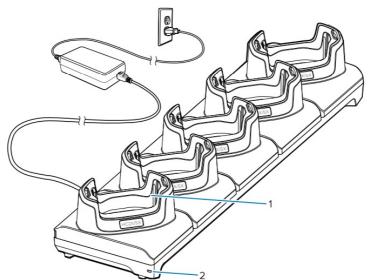
## 5-Slot Charge Only Cradle

This section describes how to use the 5-Slot Battery Charger to charge up to five device batteries. **CAUTION**: Ensure that you follow the guidelines for battery safety described in the Product Reference Guide.

## The 5-Slot Charge Only Cradle:

- Provides 5 VDC power for operating the device.
- Simultaneously charges up to five devices.



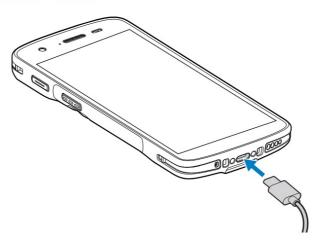


1	Device charging slot with shim
2	Power LED

## **USB Cable**

The USB cable plugs into the bottom of the device. When attached to the device, the cable allows charging, transferring data to a host computer, and connecting USB peripherals. Remove the USB connector plug before inserting the USB cable into the USB-C connector.

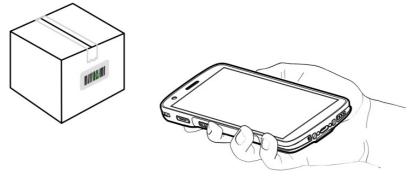
Figure 7 USB cable



# Scanning with Internal Imager

To read a barcode, a scan-enabled application is required. The device contains the DataWedge application, which allows you to enable the imager, decode the barcode data, and display the barcode content.

- 1. Ensure that an application is open on the device and a text field is in focus (text cursor in the text field).
- 2. Point the scanner exit window of the device at a barcode.



3. Press and hold the scan button.

The device projects the aiming pattern.

**NOTE**: When the device is in Pick List Mode, the device does not decode the barcode until the center of the dot touches the barcode.

4. Ensure the barcode is within the area formed by the aiming pattern. The aiming dot is used for increased visibility in bright lighting conditions. to indicate the barcode was decoded successfully.





5. Release the scan button.

**NOTE**: Imager decoding usually occurs instantaneously. The device repeats the steps required to take a digital picture (image) of a poor or difficult barcode as long as the scan button remains pressed. The device displays the barcode data in the text field.

# **Ergonomic Considerations**

Avoid extreme wrist angles such as these when using the device.



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# **Frequently Asked Questions**

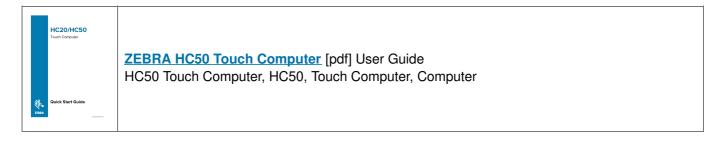
#### Q: What should I do if the device does not power on?

A: If the device does not power on, ensure that it is charged properly by connecting it to a power source using the provided USB-C connector. If the issue persists, contact customer support for assistance.

#### Q: How do I capture data using the device?

A: To capture data, use the scan button located on the front of the device. Press the button to initiate data capture. Ensure that the data capture LED indicates successful capture.

#### **Documents / Resources**



#### References

• User Manual

Manuals+, Privacy Policy

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