



ZEBRA TC27 Touch Computer User Guide

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ZEBRA TC27 Touch Computer



Specifications

- Model: TC22/TC27 Touch Computer
- Front Camera: Takes photos and videos (available on some models)
- Charging/Notification LED: Indicates battery charging status while charging and application-generated notifications
- Receiver: Use for audio playback in Handset mode
- Data Capture LED: Indicates data capture status
- Light/Proximity Sensor
- Touch Screen
- Speaker
- Cradle Charging Contacts
- USB-C Connector
- Microphone
- Scan Button
- Programmable Button
- NFC Antenna: Provides communication with other NFC-enabled devices
- Back common I/O 8 pins: Provides host communications, audio, device charging via cables, and accessories
- Basic Hand Strap Mount: Provides mounting point for Basic Hand Strap accessory
- Battery Release Latches: Press to remove the battery
- PowerPrecision Lithium-ion Battery: Provides power to the device

- Volume Up/Down Button
- Scan Button
- Camera Flash
- Rear Camera
- Card Holder
- Power Button
- Scanner Exit Window

Unpacking

1. 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.

Quick Reference Guide

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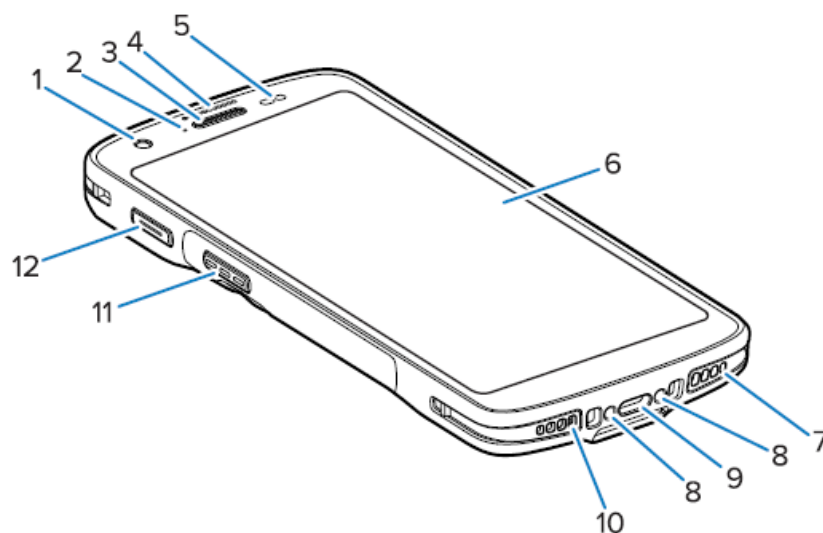
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Unpacking

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



| 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 application-generated notifications. |
| 3 | Receiver | Use for audio playback in Handset mode. |
| 4 | Data Capture LED | Indicates data capture status. |

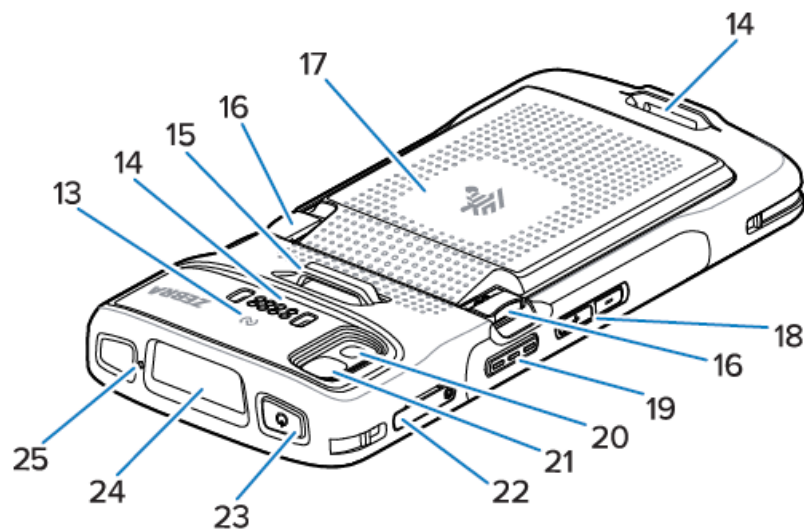
Table 1 Front View Features (Continued)

| Number | Item | Function |
|--------|--------------------------|--|
| 5 | Light/Proximity Sensor | Determines ambient light for controlling display backlight intensity and proximity for turning off the display when in handset mode. |
| 6 | Touch Screen | Displays all information needed to operate the device. |
| 7 | Speaker | Provides audio output for video and music playback. Provides audio in speakerphone mode. |
| 8 | Cradle Charging Contacts | Provides device charging via cradles and accessories. |
| 9 | USB-C Connector | Provides USB host, client communications, and device charging via cables and accessories. |
| 10 | Microphone | Use for communications in Handset mode. |
| 11 | Scan Button | Initiates data capture (programmable). |
| 12 | Programmable Button | Typically used for Push-to-Talk communications. Where regulatory restrictions exist ^a for Push-to-Talk VoIP communication, this button is configurable for use with other applications. |

Table 1 Front View Features (Continued)

Figure 2 Rear View

Figure 2 Rear View



| Number | Item | Function |
|--------|------------------------|---|
| 13 | NFC Antenna | Provides communication with other NFC-enabled devices. |
| 14 | Back common I/O 8 pins | Provides host communications, audio, device charging via cables, and accessories. |
| 15 | Basic Hand Strap Mount | Provides mounting point for Basic Hand Strap accessory. |

| Number | Item | Function |
|--------|------------------------------------|---|
| 16 | Battery Release Latches | Press to remove the battery. |
| 17 | PowerPrecision Lithium-ion Battery | Provides power to the device. |
| 18 | Volume Up/Down Button | Increase and decrease audio volume (programmable). |
| 19 | Scan Button | Initiates data capture (programmable). |
| 20 | Camera Flash | Provides illumination for the camera and operates as a flashlight. |
| 21 | Rear Camera | Takes photos and videos. |
| 22 | Card Holder | Holds a SIM card and an SD card. |
| 23 | Power Button | Turns the display on and off. Press and hold to reset the device or power it off. |
| 24 | Scanner Exit Window | Provides data capture using the imager. |
| 25 | Microphone | Use for communications in Speakerphone mode. |

Setting Up the Device

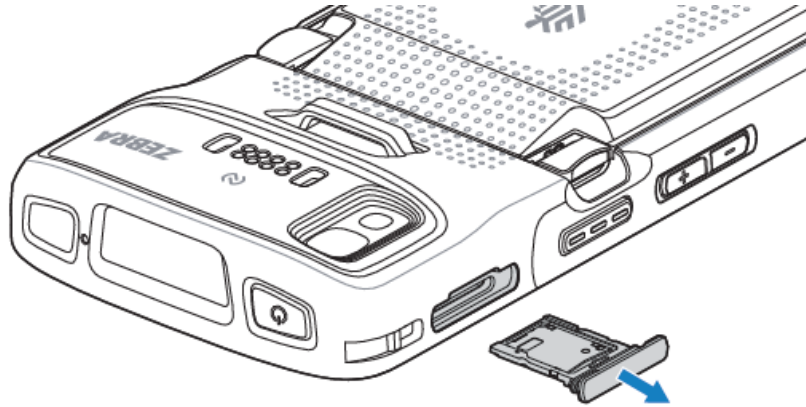
To start using the device for the first time.

1. Install a micro secure digital (SD) card (optional).
2. Installing a nano SIM card (optional)
3. Install the battery.
4. Charge the device.

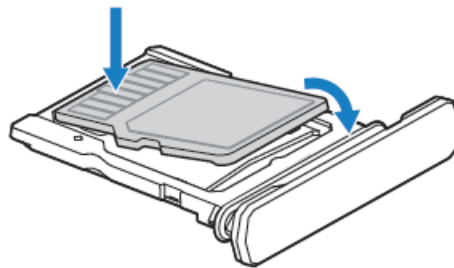
Installing a microSD Card

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.

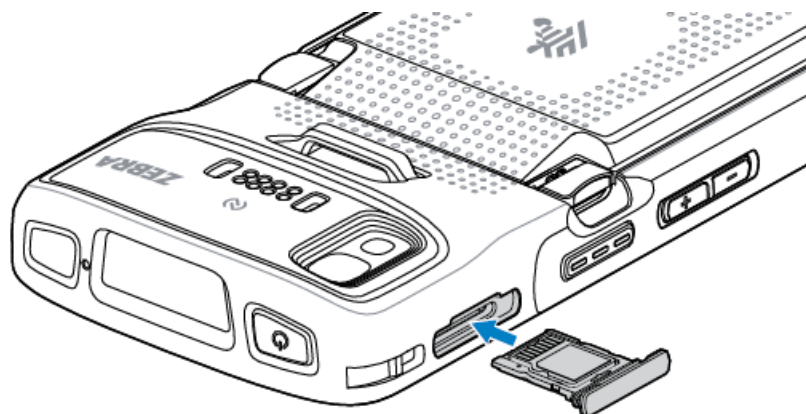
1. Pull the card holder out of the device.



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.

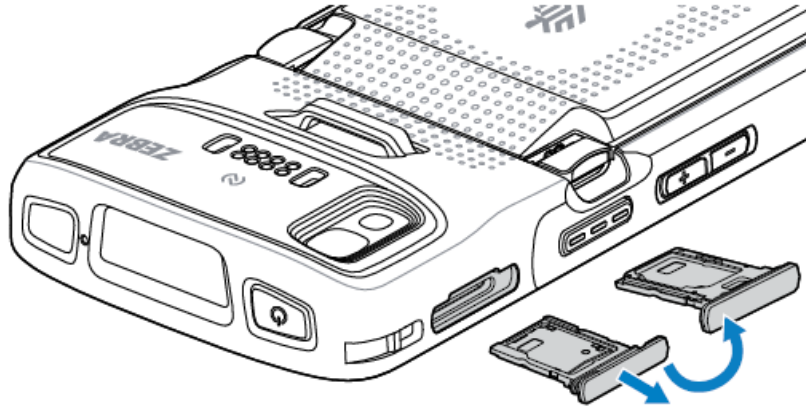


Installing the SIM Card

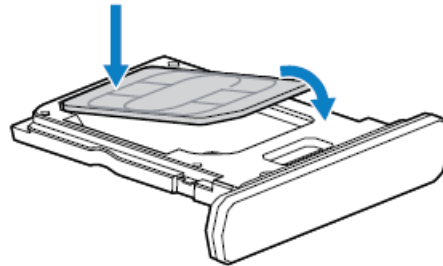
NOTE: Only use a nano SIM card.

CAUTION: For proper electrostatic discharge (ESD) precautions to avoid damaging the SIM card. Proper ESD precautions include, but not limited to, working on an ESD mat and ensuring that the user is properly grounded.

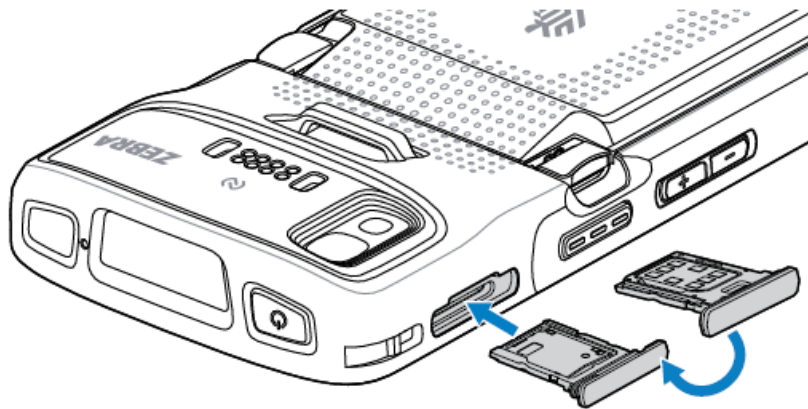
1. Pull the card holder out of the device



2. Flip the card holder over.
3. Place the SIM card end, with contacts facing up, into the card holder



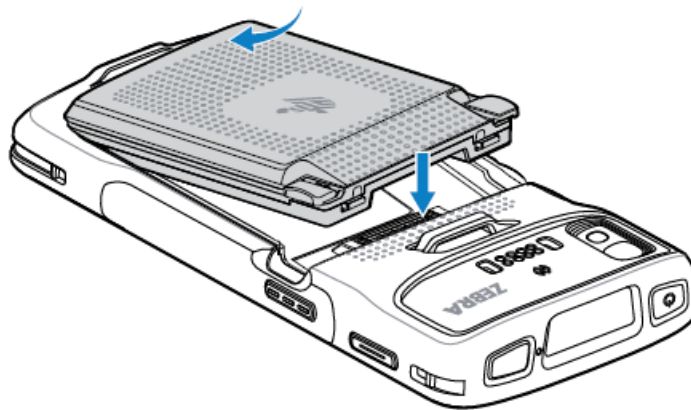
4. Rotate the SIM card down.
5. Press the SIM card down into the card holder and ensure that it seats properly.
6. Flip the card holder over and re-install the card holder.



Installing the Battery

NOTE: User modification of the device, particularly in the battery well, such as labels, asset tags, engravings, 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, temperature resistance could be effected. DO NOT put any labels, asset tags, engravings, 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.

NOTE: The spare battery charges charge both standard and extended batteries.

| Description | Part Number | Charging | | Communication | |
|--|-------------------|---------------------|---------------|---------------|----------|
| | | Battery (In Device) | Spare Battery | USB | Ethernet |
| 1-Slot Charge Only Cradle | CRD-TC2L-BS1CO-01 | Yes | No | No | No |
| 1-Slot USB Cradle | CRD-TC2L-SE1ET-01 | Yes | No | Yes | No |
| 1-Slot Charge Only with Spare Battery Cradle | CRD-TC2L-BS11B-01 | Yes | Yes | No | No |
| 4-Slot Battery Charger | SAC-TC2L-4SCHG-01 | No | Yes | No | No |
| 5-Slot Charge Only Cradle | CRD-TC2L-BS5CO-01 | Yes | No | No | No |
| 5-Slot Ethernet Cradle | CRD-TC2L-SE5ET-01 | Yes | No | No | Yes |

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.

There are three batteries available:

- Standard 3,800 mAh PowerPrecision LI-ON Battery – part number: BTRY-TC2L-2XMAXX-01
- Standard 3,800 mAh PowerPrecision LI-ON Battery with BLE Beacon – part number: BTRYTC2L- 2XMAXB-01
- Extended 5,200 mAh PowerPrecision LI-ON Battery – part number BTRY-TC2L-3XMAXX-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:

In many cases, the 90% charge provides plenty of charge for daily use.
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 the cradle or connected to a power source. The charger/cradle is not powered. |
| Slow Blinking Amber (1 blink every 4 seconds) | 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 life. |
| Solid Green | Charging complete. |

| State | Indication |
|---------------------------------------|--|
| Solid Red | Charging is complete, but the battery is at the end of its useful life. |
| Fast Blinking Amber (2 blinks/second) | Charging error, e.g.: <ul style="list-style-type: none">• Temperature is too low or too high• Charging has gone on too long without completion (typically eight hours). |
| Fast Blinking Red (2 blinks/second) | Charging error but the battery is at the end of its useful life., e.g.: <ul style="list-style-type: none">• Temperature is too low or too high• Charging has gone on too long without completion (typically eight hours). |

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 useful life. Charging is complete, and the battery is at the end of its useful 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.

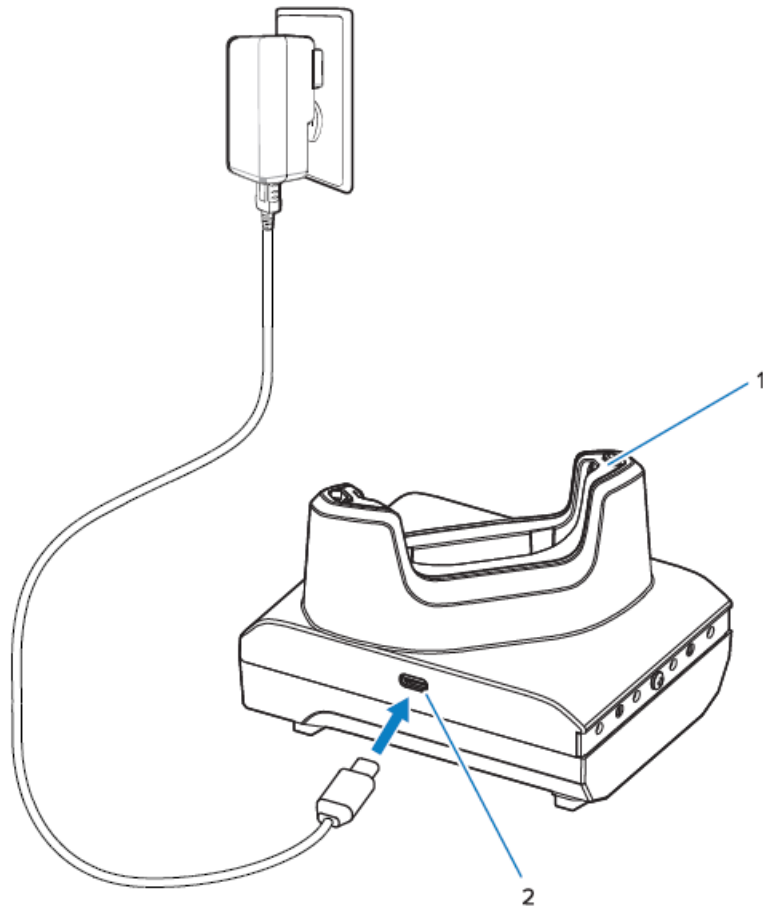
CAUTION: Ensure that you follow the guidelines for battery safety described in the Product Reference Guide.

The 1-Slot Charge Only Cradle:

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

Figure 3 1-Slot Charge Only Cradle

Figure 3 1-Slot Charge Only Cradle



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

1-Slot USB Cradle

This cradle provides power and USB communications.

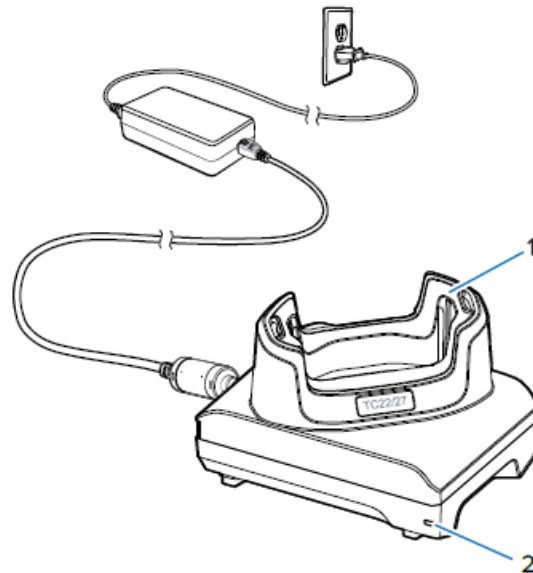
CAUTION: Ensure that you follow the guidelines for battery safety described in the Product Reference Guide.

The 1-Slot USB Cradle:

- Provides 5 VDC power for operating the device.
- Charges the device's battery.
- Provides USB communication with a host computer.

4 1-Slot USB Cradle

Figure 4 1-Slot USB Cradle



| | |
|---|---------------------------------|
| 1 | Device charging slot with shim. |
| 2 | Power LED |

1-Slot Charge Only with Spare Battery Cradle

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

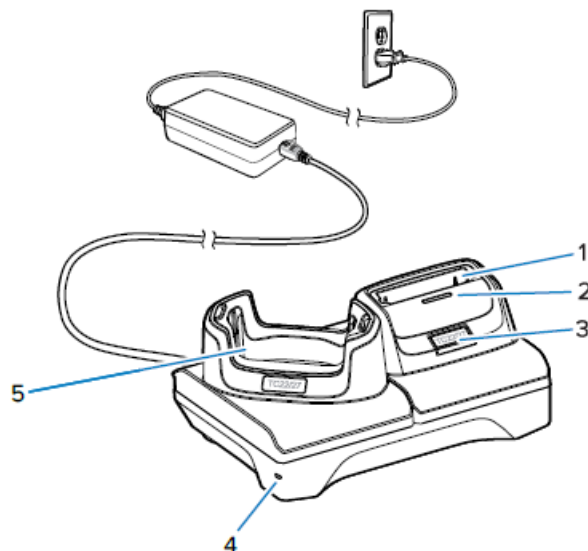
CAUTION: Ensure that you follow the guidelines for battery safety described in the Product

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 5 1-Slot Cradle with Spare Battery Slot

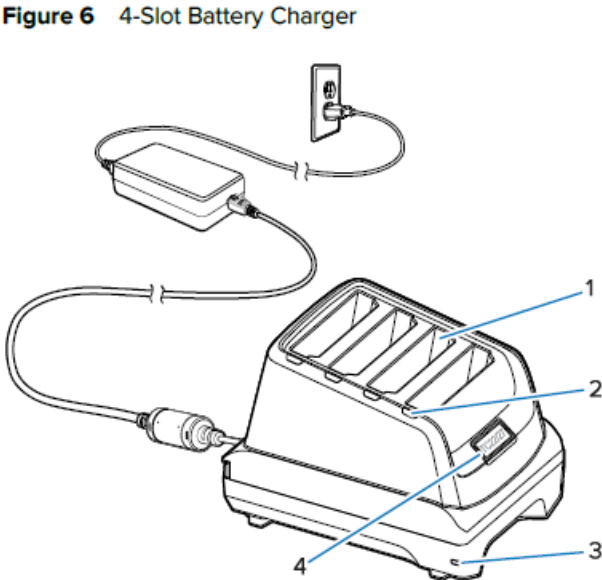


| | |
|---|--|
| 1 | Spare battery charging slot. |
| 2 | Spare battery charging LED |
| 3 | USB-C port The USB-C port is a service connector only for firmware upgrades and is not intended for power charging. |
| 4 | Power LED |
| 5 | Device charging slot with shim |

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 6 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 charging. |

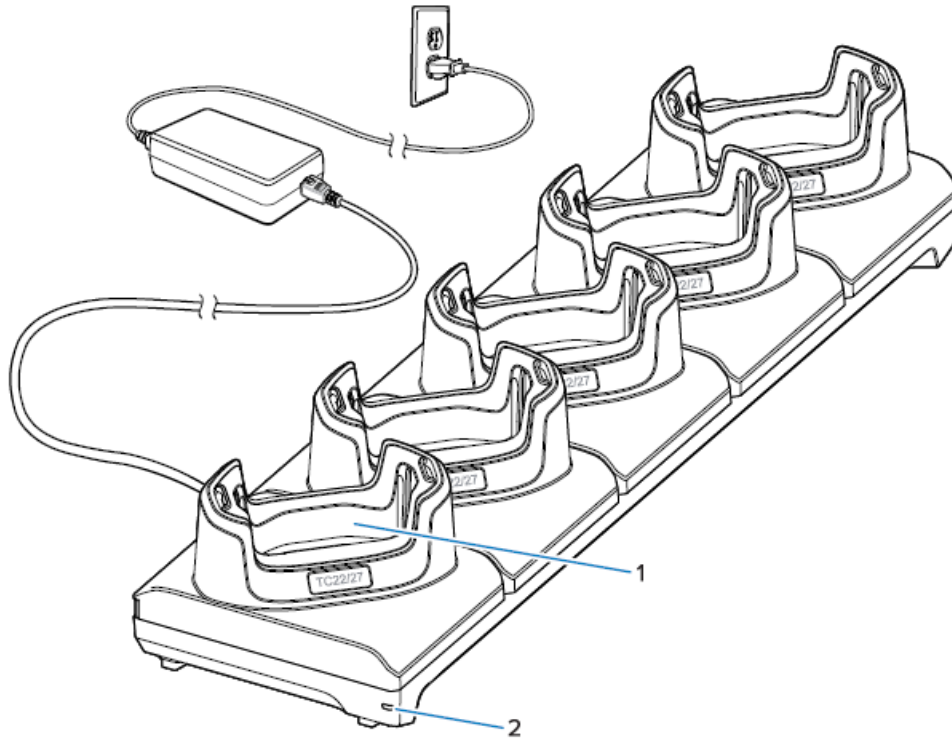
5-Slot Charge Only Cradle

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.

Figure 7 5-Slot Charge Only Cradle



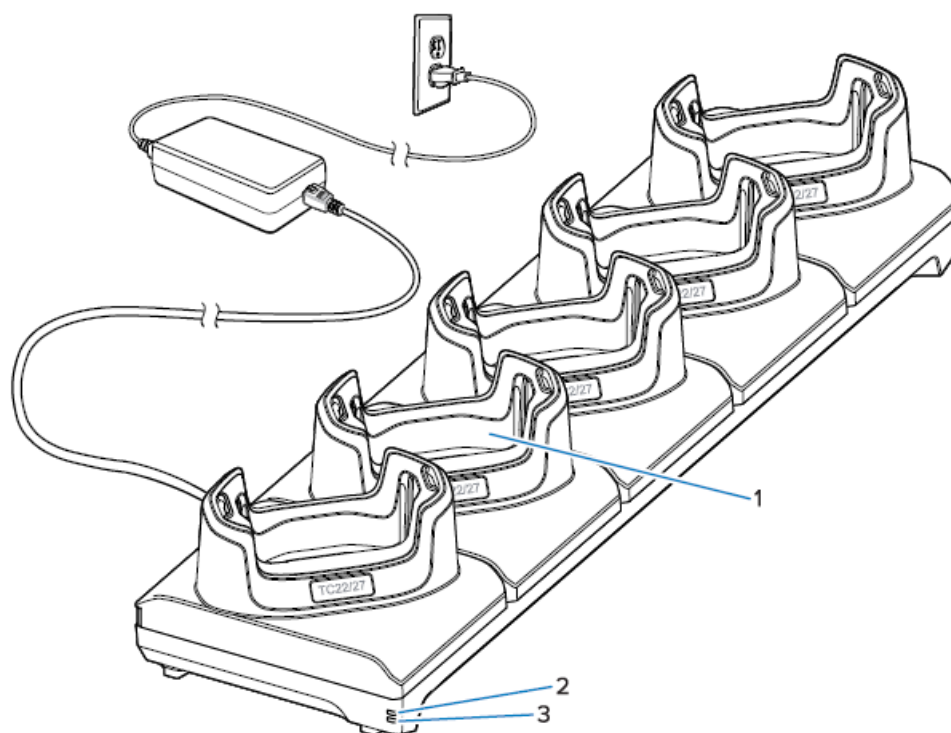
| | |
|---|--------------------------------|
| 1 | Device charging slot with shim |
| 2 | Power LED |

5-Slot Ethernet Cradle

CAUTION: Ensure that you follow the guidelines for battery safety described in the Product Reference Guide. The 5-Slot Ethernet Cradle:

- Provides 5 VDC power for operating the device.
- Connects the device (up to five) to an Ethernet network.
- Simultaneously charges up to five devices.

Figure 8 5-Slot Ethernet Cradle



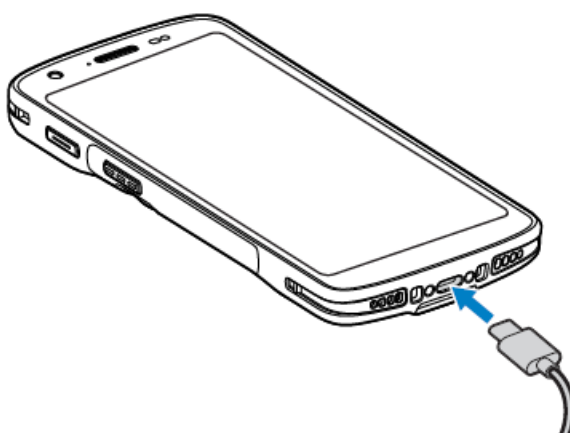
| | |
|---|--------------------------------|
| 1 | Device charging slot with shim |
| 2 | 1000 LED |
| 3 | 100/100 LED |

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.

Figure 9 USB cable

Figure 9 USB cable

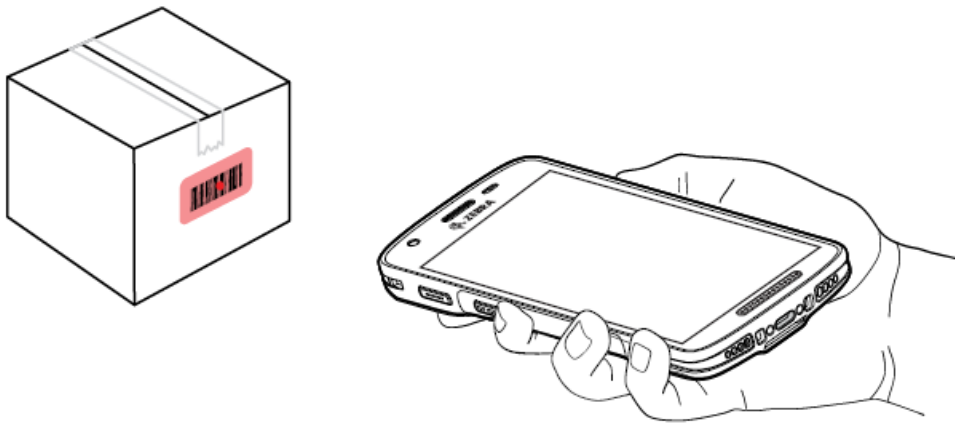


Scanning with Internal Imager

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.

NOTE: The SE55 displays a green dash-dot-dash aimer. The SE4710 imager displays a red dot aimer.

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

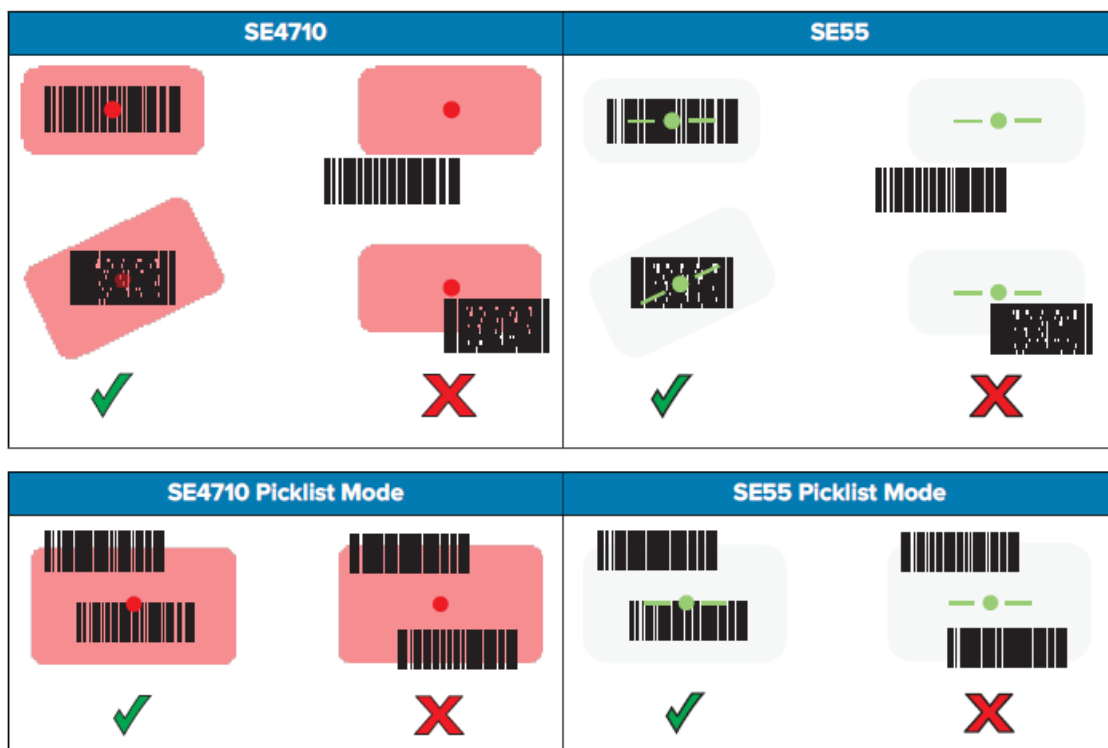


3. Press and hold the scan button.

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.

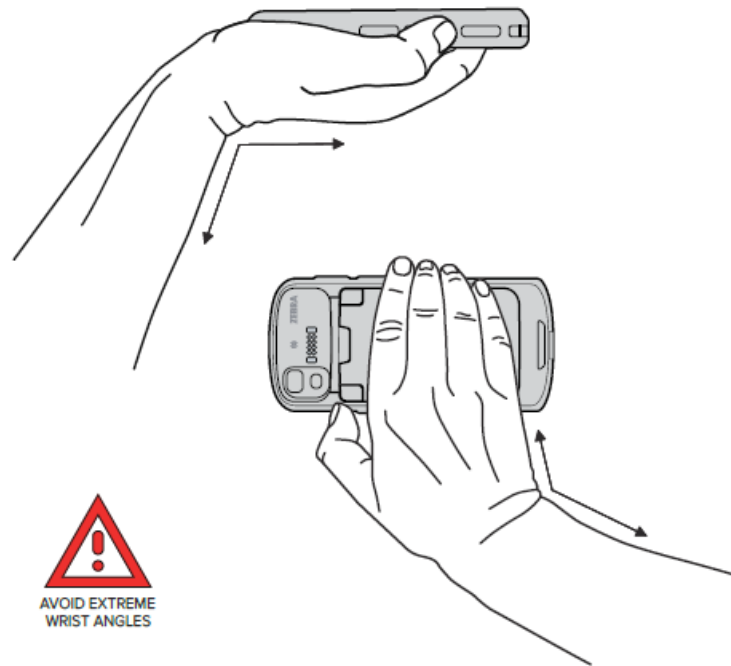
5. Release the scan button.

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.



www.zebra.com

Documents / Resources

| | |
|---|---|
|  | <p>ZEBRA TC27 Touch Computer [pdf] User Guide TC27 Touch Computer, TC27, Touch Computer, Computer</p> |
|---|---|

References

- [User Manual](#)

[Manuals+](#), [Privacy Policy](#)

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