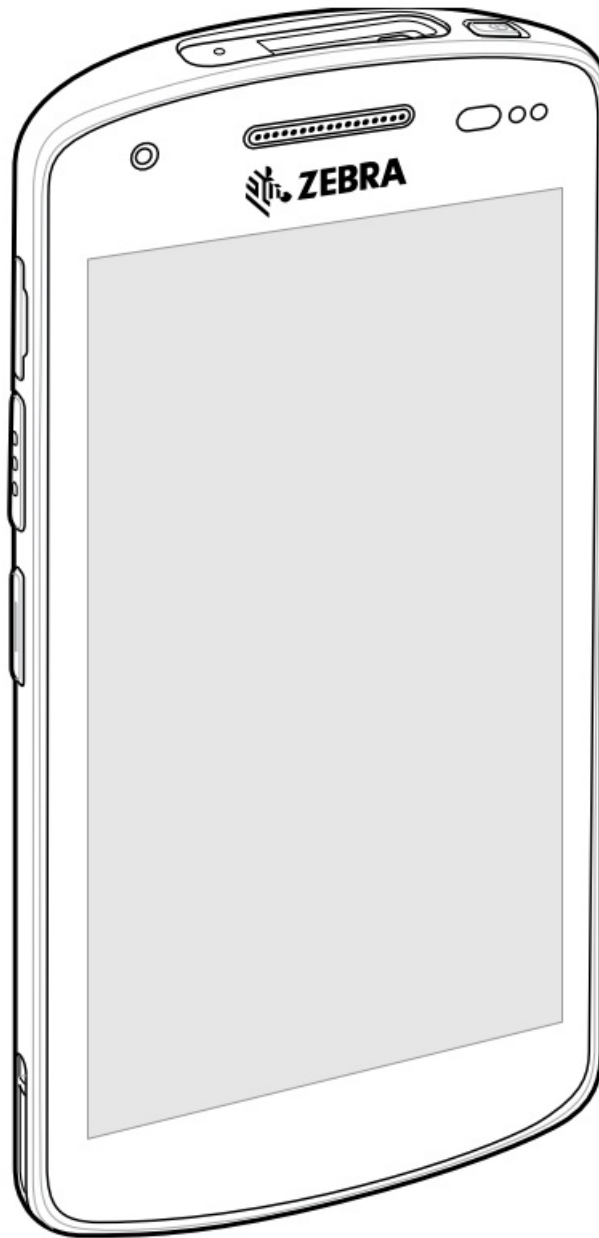




## ZEBRA EC50 Series Enterprise Computer User Guide

[Home](#) » [ZEBRA](#) » ZEBRA EC50 Series Enterprise Computer User Guide 

**ZEBRA EC50 Series Enterprise Computer**



## Contents

- 1 COPYRIGHT
- 2 Terms of Use
- 3 Device Features
- 4 Setting Up the Device
  - 4.1 Installing or Replacing a microSD Card
  - 4.2 Installing or Replacing the SIM Card
- 5 Device Charging
  - 5.1 Charging Indicators
  - 5.2 Charging Temperature
- 6 Charging the Device
- 7 Accessories
- 8 USB Communication and Charge Cable
- 9 Scanning with Internal Imager
- 10 Ergonomic Considerations
- 11 Documents / Resources
  - 11.1 References
- 12 Related Posts

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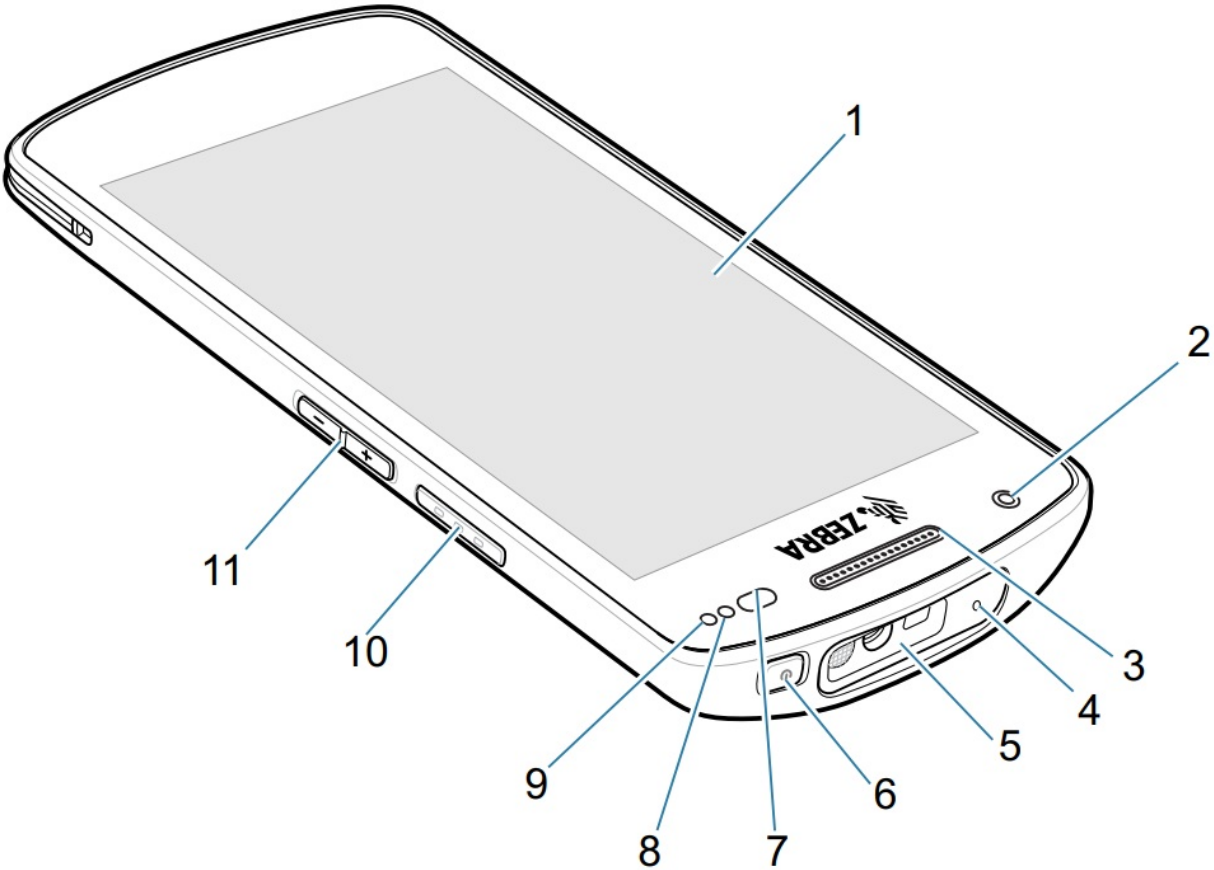
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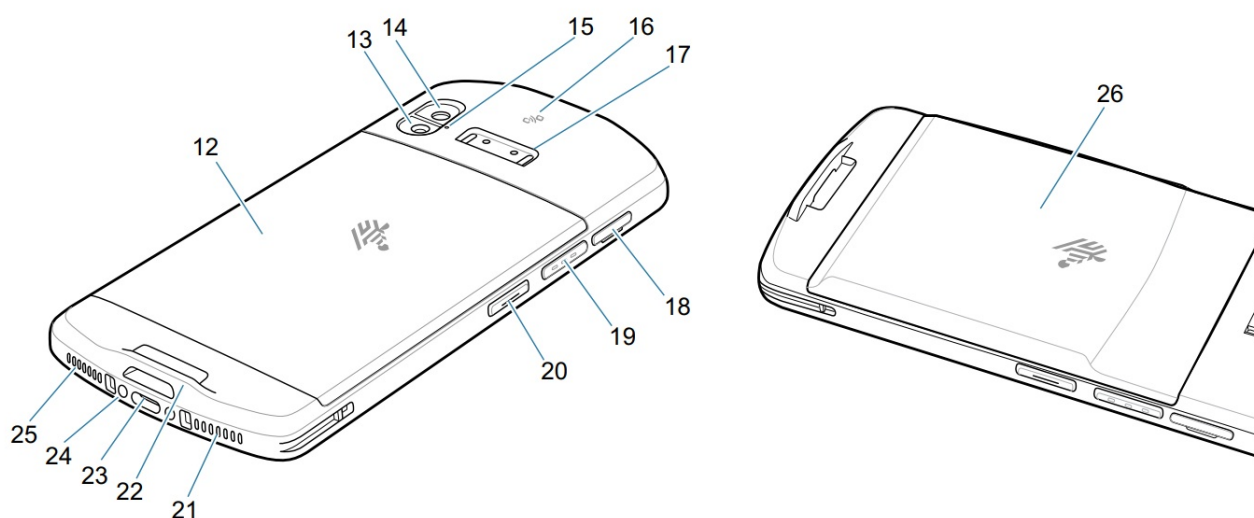
## **Device Features**

**Figure 1** Front View



Item	Name	Description
1	Touch screen	Displays all information needed to operate the device.
2	Front camera	Takes photos and videos (available on some models).
3	Receiver	Use for audio playback in Handset mode.
4	Microphone	Use for communications in Speakerphone mode.
5	Exit window	Provides data capture using the imager (available on some models).
6	Power button	Turns the display on and off. Press and hold to reset the device or power off.
7	Proximity/Light sensor	Determines proximity for turning off display when in Handset mode. Determines ambient light for controlling display backlight intensity.
8	Data capture LED	Indicates data capture status.
9	Charging/Notification LED	Indicates battery charging status while charging and application generated notifications.
10	Scan button	Initiates data capture (programmable).
11	Volume Up/Down button	Increases and decreases audio volume (programmable).

**Figure 2** Rear View



Item	Name	Description
12	Standard battery	Provides standard battery capacity.
13	Camera flash	Provides illumination for the camera.
14	Rear camera	Takes photos and videos.
15	Microphone	Use for noise cancellation.
16	NFC antenna	Provides communication with other NFC-enabled devices.
17	Trigger handle mount	Provides electrical contacts (0, 2, or 8 pins) and mounting for the Trigger Handle.
18	SD/SIM card drawer	Provides access to micro SD card and SIM card.
19	Scan button	Initiates data capture (programmable).
20	Programmable Button	Typically used for PTT communications. Where regulatory restrictions exist button is configurable for use with other applications.
21	Microphone	Use for communications in handset mode.
22	Hand strap mount	Provides mounting point for hand strap and tether accessory.
23	USB-C connector	Provides USB host and client communications, and device charging via cables and accessories.
24	Charging connector	Provides device charging via cradles.
25	Speaker	Provides audio output for video and music playback. Provides audio in speakerphone mode.
26	Extended battery	Provides extended battery capacity.
<b>1 Pakistan, Qatar</b>		

## 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 for EC55 only)
3. Charge the device.
4. Power on the device.

## Installing or Replacing a microSD Card

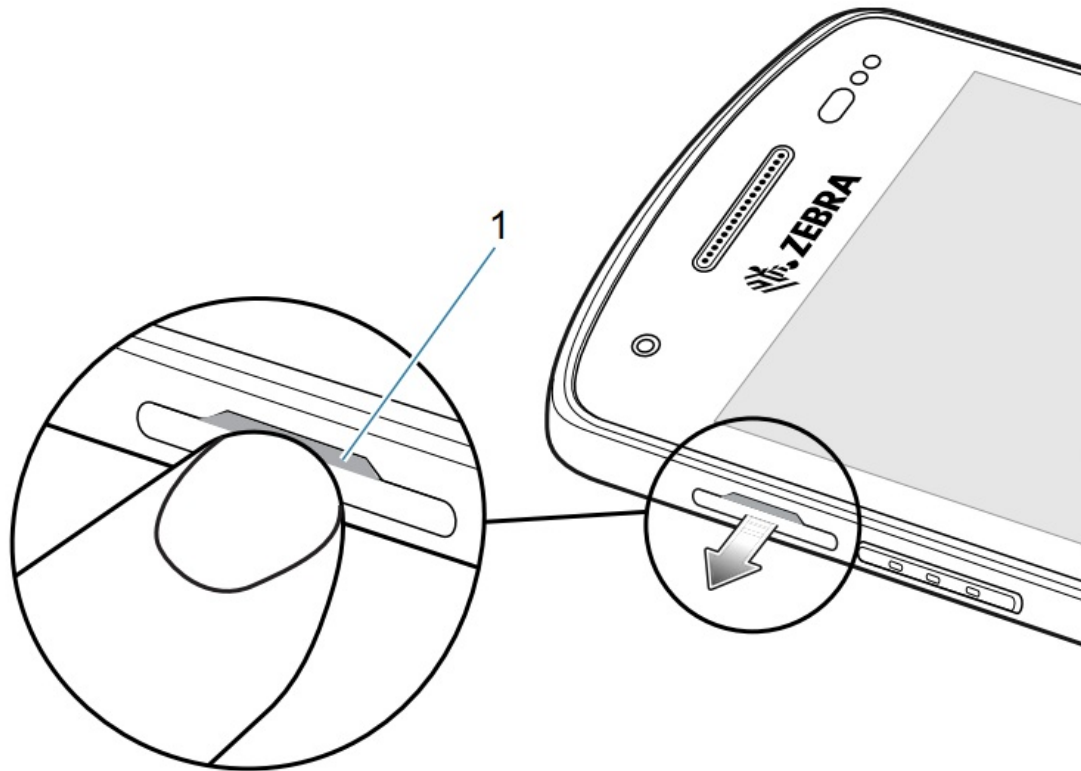
The microSD card slot provides secondary non-volatile storage. For more information, refer to the documentation provided with the card and follow the manufacturer's recommendations for use.



**CAUTION:** Follow proper electrostatic discharge (ESD) precautions to avoid damaging the microSD card.

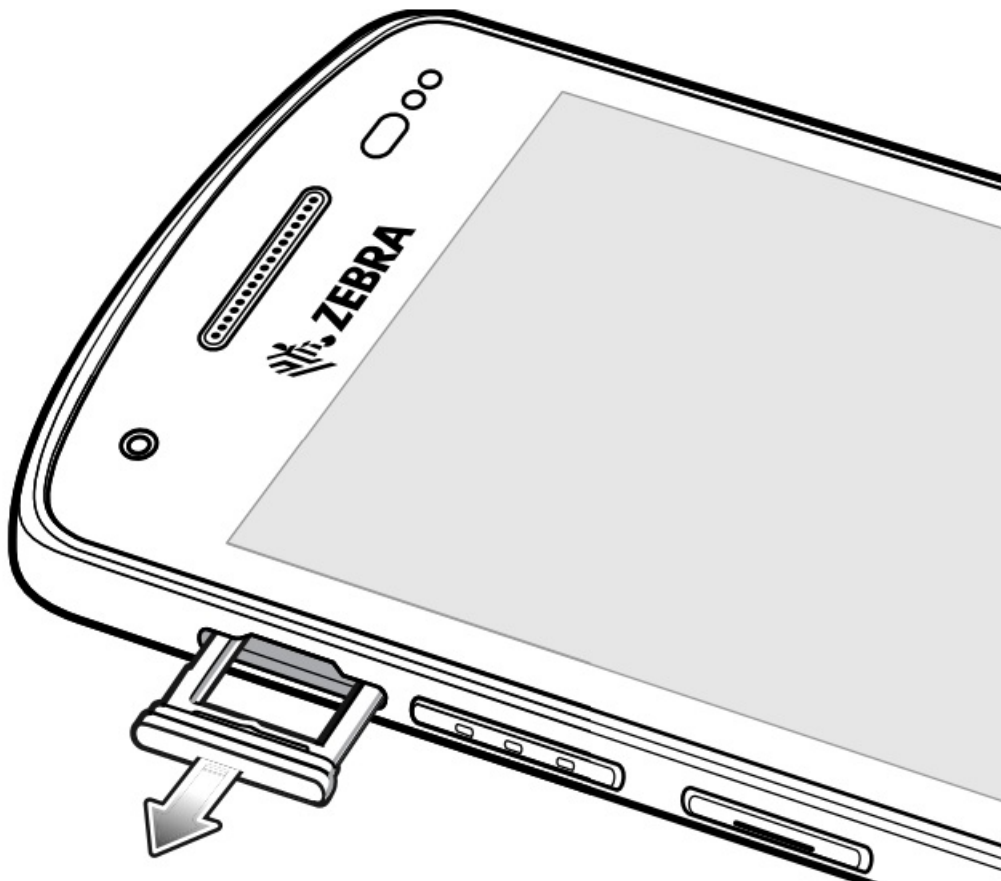
Proper ESD precautions include, but are not limited to, working on an ESD mat and ensuring that the operator is properly grounded.

1. Using your fingernail or a plastic tool, pull out the SD/SIM card drawer

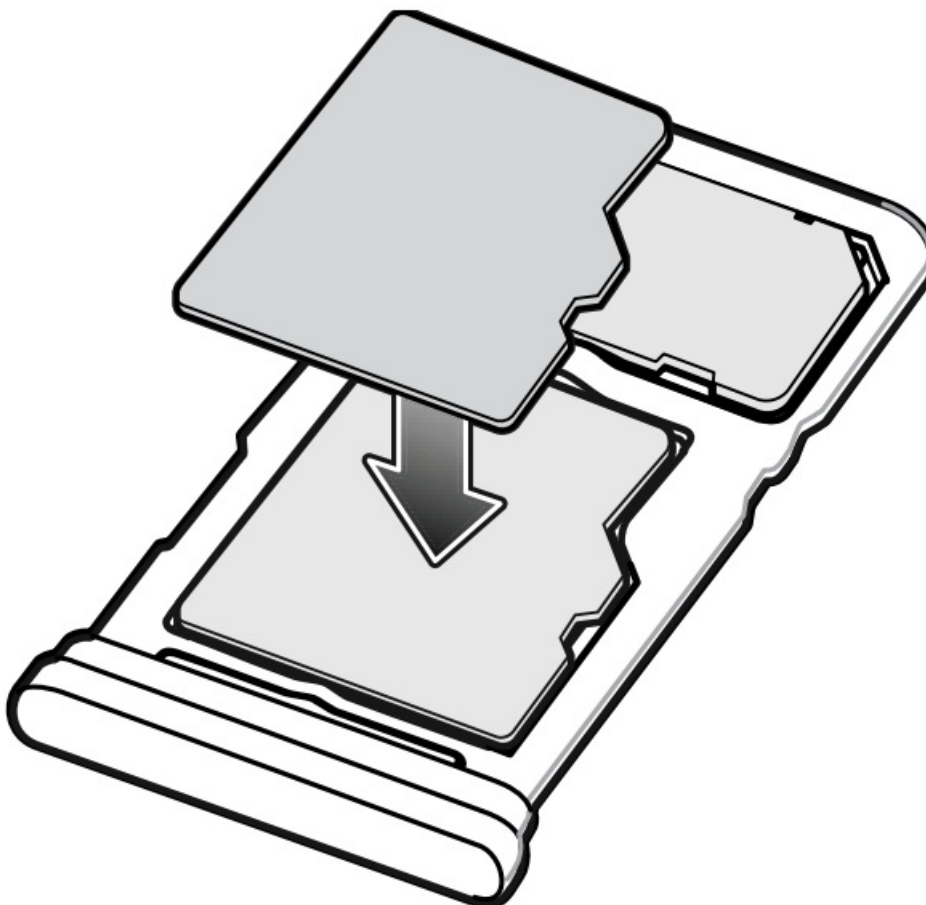


1	Charging slot
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2. Remove the SD/SIM card drawer from the device.

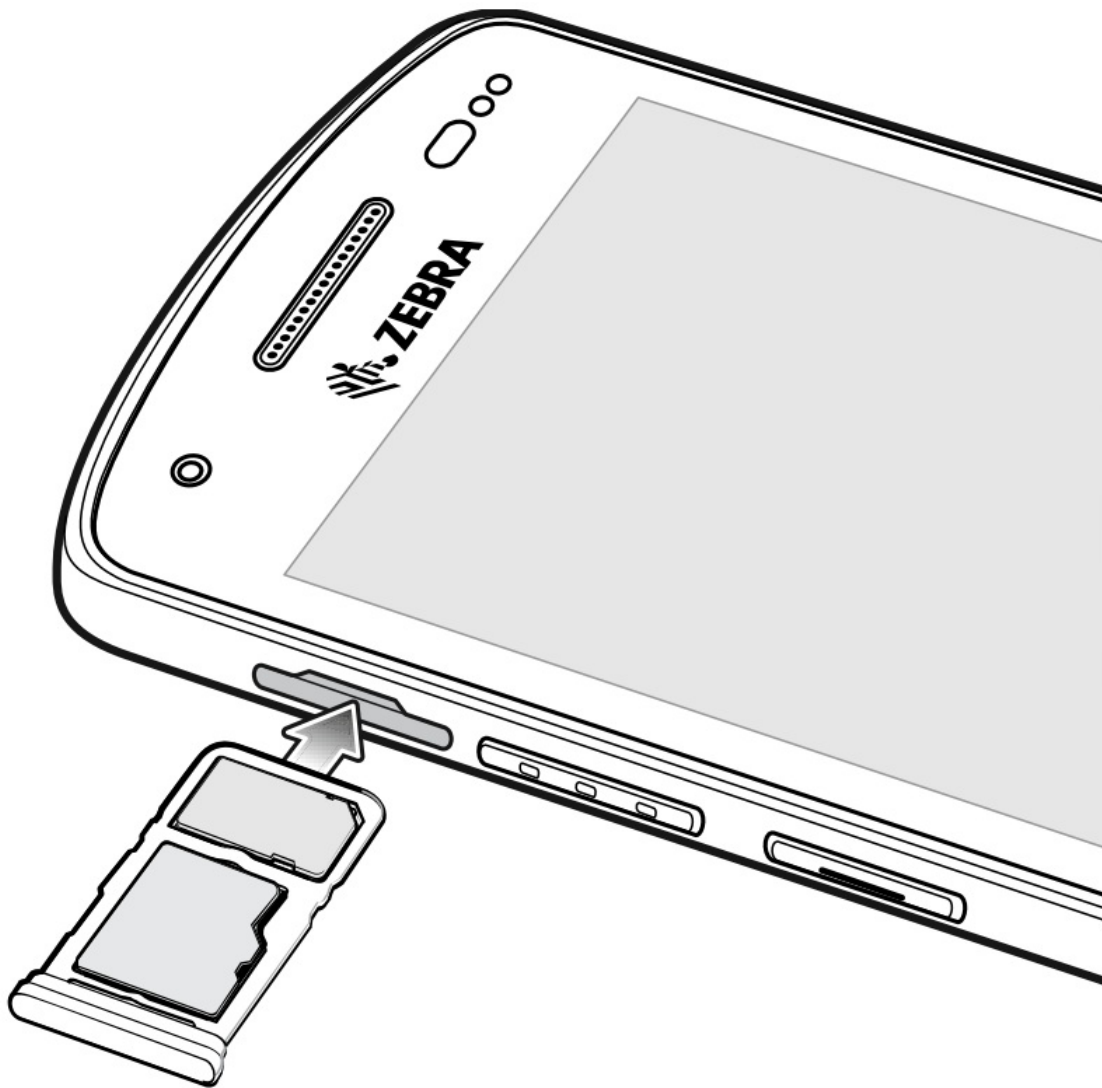


3. Insert or replace the microSD card into the SD/SIM card drawer



4. Insert the SD/SIM card drawer into the device.





5. Press the SD/SIM card drawer into the device to ensure it is in securely.

#### Installing or Replacing the SIM Card

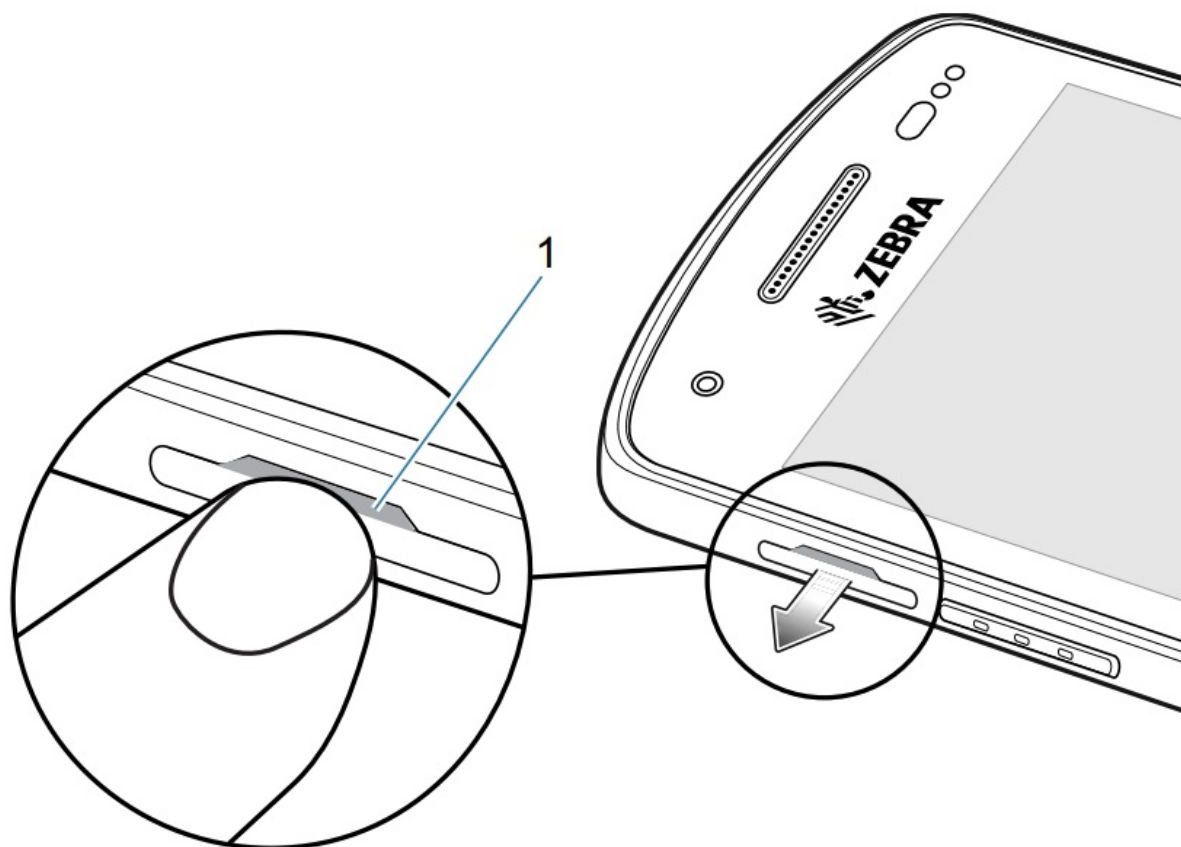


**NOTE:** Only use a nano SIM card. EC55 only.



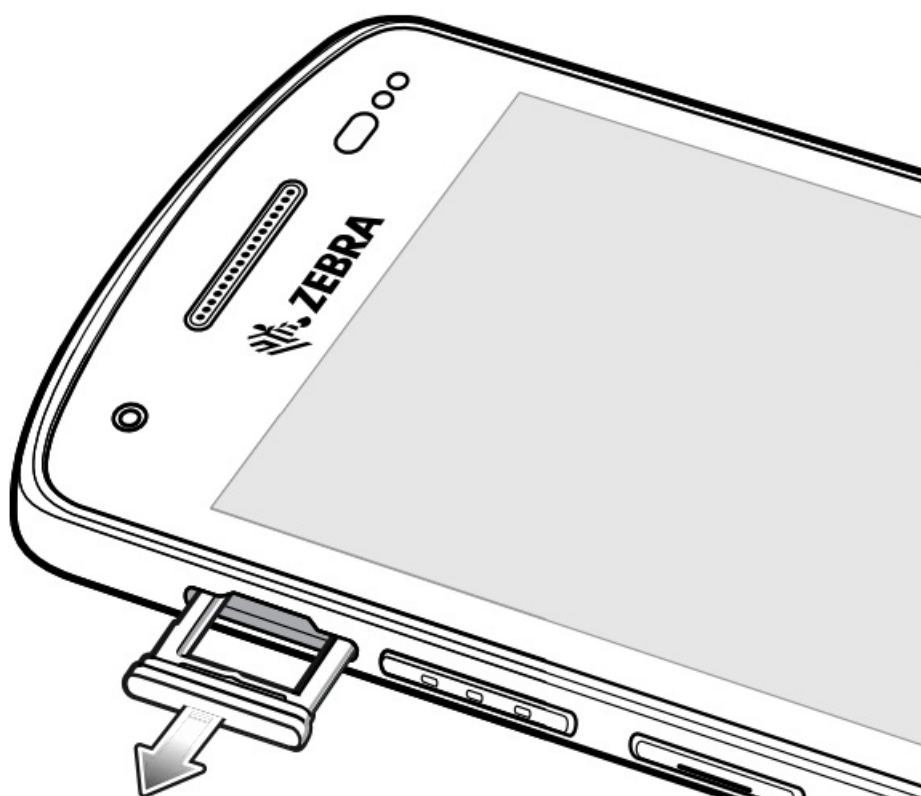
**CAUTION:** For proper electrostatic discharge (ESD) precautions to avoid damaging the SIM card. Proper ESD precautions include, but not limited to, working on an ESD mat and ensuring that the user is properly grounded.

1. Using your fingernail or a plastic tool, pull out the SD/SIM card drawer.

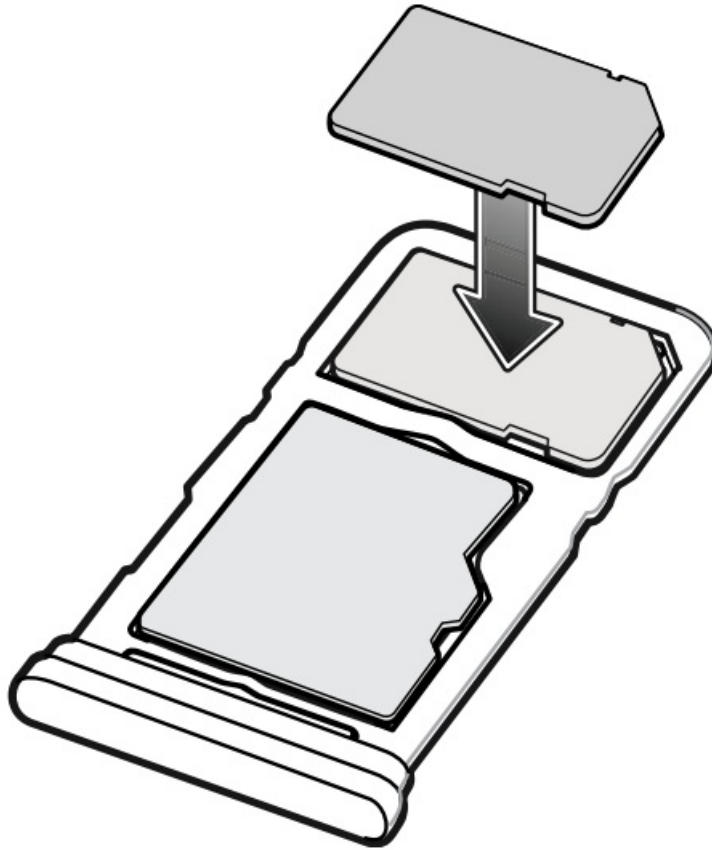


1	Charging slot
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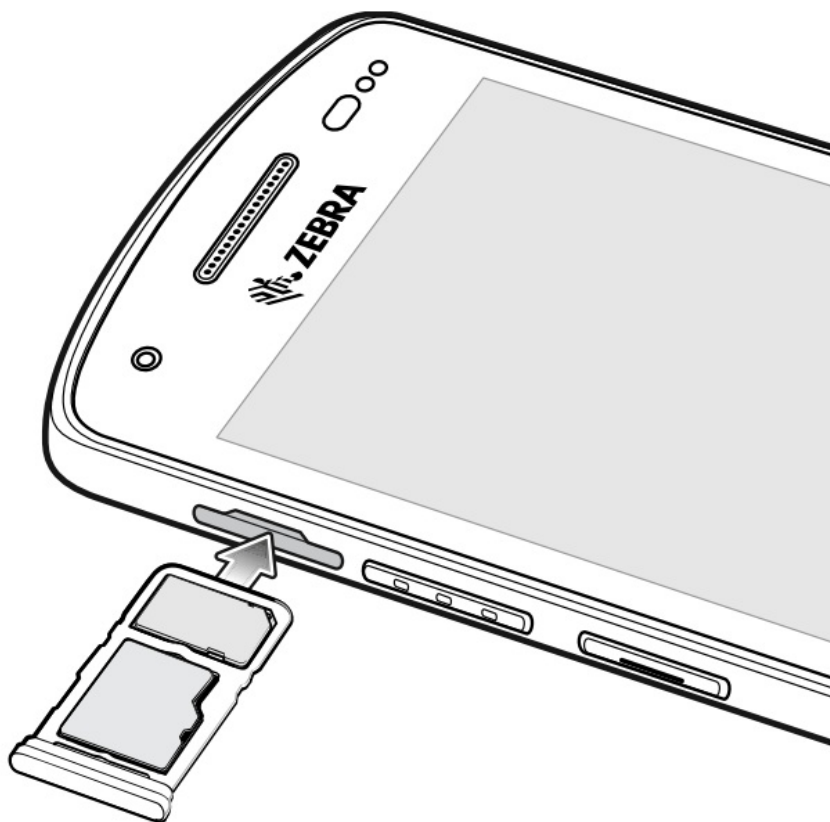
2. Remove the SD/SIM card drawer from the device.



3. Insert the SIM card into the access drawer.



4. Insert the microSD/SIM card access drawer into the device.



5. Press the SD/SIM card drawer into the device to ensure it is in securely.

## Device Charging

Before using the device for the first time, charge the device until the green Charging/Notification light emitting diode (LED) remains lit. To charge the device use a cable or a cradle with the appropriate power supply. The device's Charging/Notification LED indicates the status of the device charging. See Table 1 on page 8 for device charging status. When charging the device using a Zebra cradle or power supply, the standard battery charges from fully depleted to 90% in less than two hours. The extended battery charges from fully depleted to 90% in less than three hours.



**NOTE:** In many cases the 90% charge provides plenty of charge for daily use.

To achieve the best fast charging results use only Zebra charging accessories. Charge the device at room temperature

### Charging Indicators

**Table 1** Charging/Notification LED Charging Indicators

State	Indication
Off	Device is not charging. Device is not inserted correctly in the cradle or connected to a power source. Charger/cradle is not powered.
Slow blinking amber (1 blink every 4 seconds)	Device is charging.
Slow blinking red (1 blink every 4 seconds)	Device is charging but the battery is at end of useful life.
Solid green	Charging complete.
Solid red	Charging complete but the battery is at end of useful life.
Fast blinking amber (2 blinks/second)	Charging error, for example: <ul style="list-style-type: none"><li>• Temperature is too low or too high.</li><li>• Charging has gone on too long without completion (typically 8 hours).</li></ul>
Fast blinking red (2 blinks/second)	Charging error but the battery is at end of useful life., for example: <ul style="list-style-type: none"><li>• Temperature is too low or too high.</li><li>• Charging has gone on too long without completion (typically 8 hours).</li></ul>

### 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.

## Charging the Device

Charge the device using a charging cradle or a charging cable. For information about the accessories available for the device, see Accessories.

To charge the device using a charging cradle:

1. Insert the device into a charging slot.
2. Ensure the device is seated properly

## Accessories



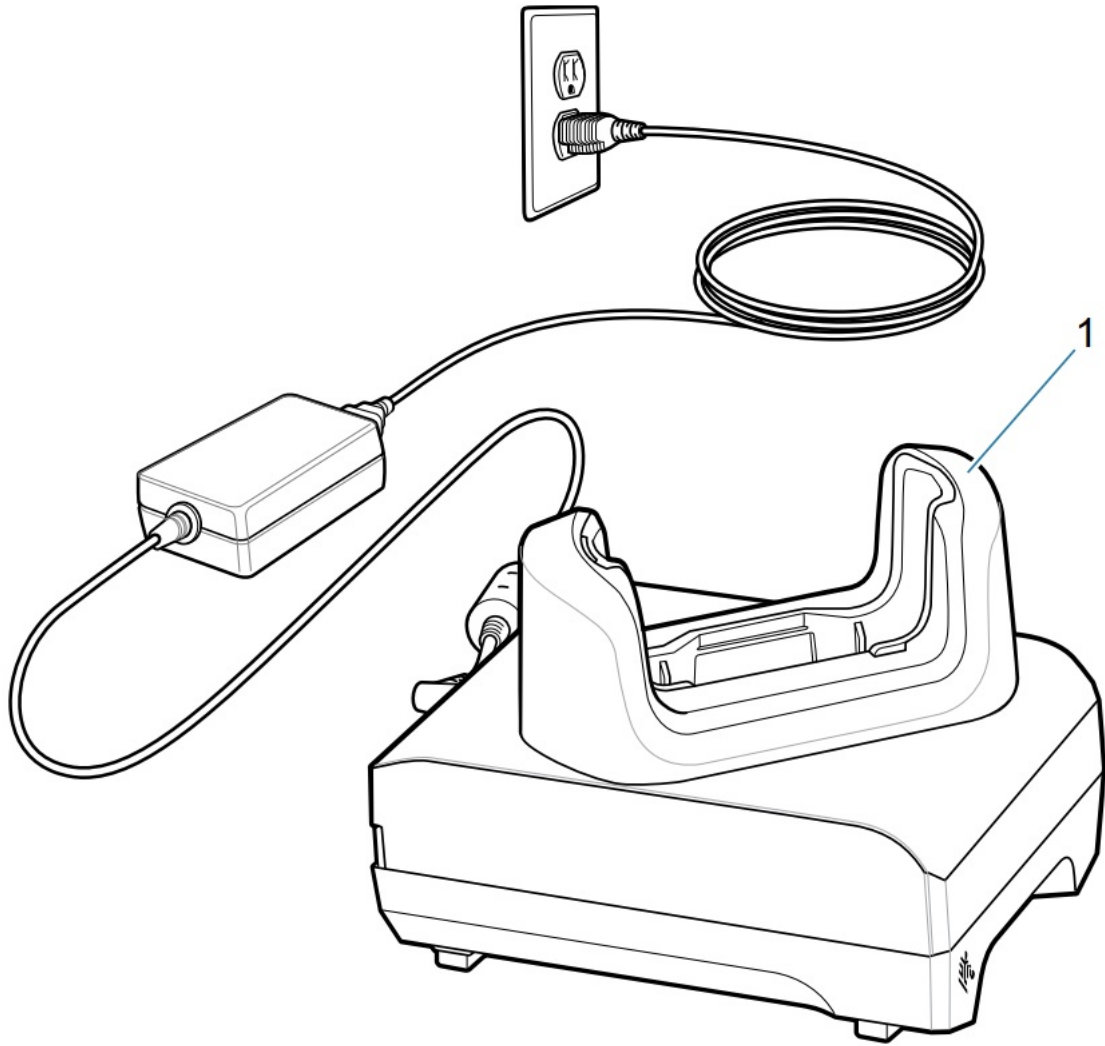
**CAUTION:** Ensure that you follow the guidelines for battery safety described in the device Product Reference Guide.

Use one of the following accessories to charge the device.

**Table 2** Accessories

Accessory	Part Number	Description
1-Slot Charge Only Cradle	CRD-EC5X-1SCU-01	Provides device charging only. Requires USB-C cable (CBL-TC5X-USBC2A-01) and power supply (PWR-WUA5V12W0xx).
1-Slot USB/Ethernet Cradle	CRD-EC5X-1SCUE-01	Provides device charging and communication. Requires power supply (PWR-BGA12V50W0WW) and DC line cord (CBL-DC-388A1-01).
4-Slot Charge Only Cradle	CRD-EC5X-4SCO-01	Charges up to four devices. Requires power supply (PWR-BGA12V108W0WW), DC line cord (CBL-DC-381A1-01), and country-specific AC line cord.
4-Slot Charge Only Locking Cradle	CRD-EC5X-4SCOL-01	Charges up to four devices. Requires power supply (PWR-BGA12V108W0WW), DC line cord (CBL-DC-381A1-01), and country-specific AC line cord.
1-Slot Workstation Cradle	CRD-EC5X-1SWS-01	Provides device charging, Ethernet communication, three 0.5 A USB ports, one 1.5 A USB port, and one HDMI port. Requires power supply (PWR-BGA12V50W0WW) and DC line cord (CBL-DC-388A1-01).
5-Slot Ethernet Cradle	CRD-EC5X-SE5ET-01	Provides up to five device charging, Ethernet communication, and two Ethernet ports. Requires power supply (PWR-BGA12V108W0WW) and DC line cord (CBL-DC-381A1-01).
USB-C Communication and Charge Cable	CBL-TC5X-USBC2A-01	Provides USB-A to USB-C communication and power to the device.

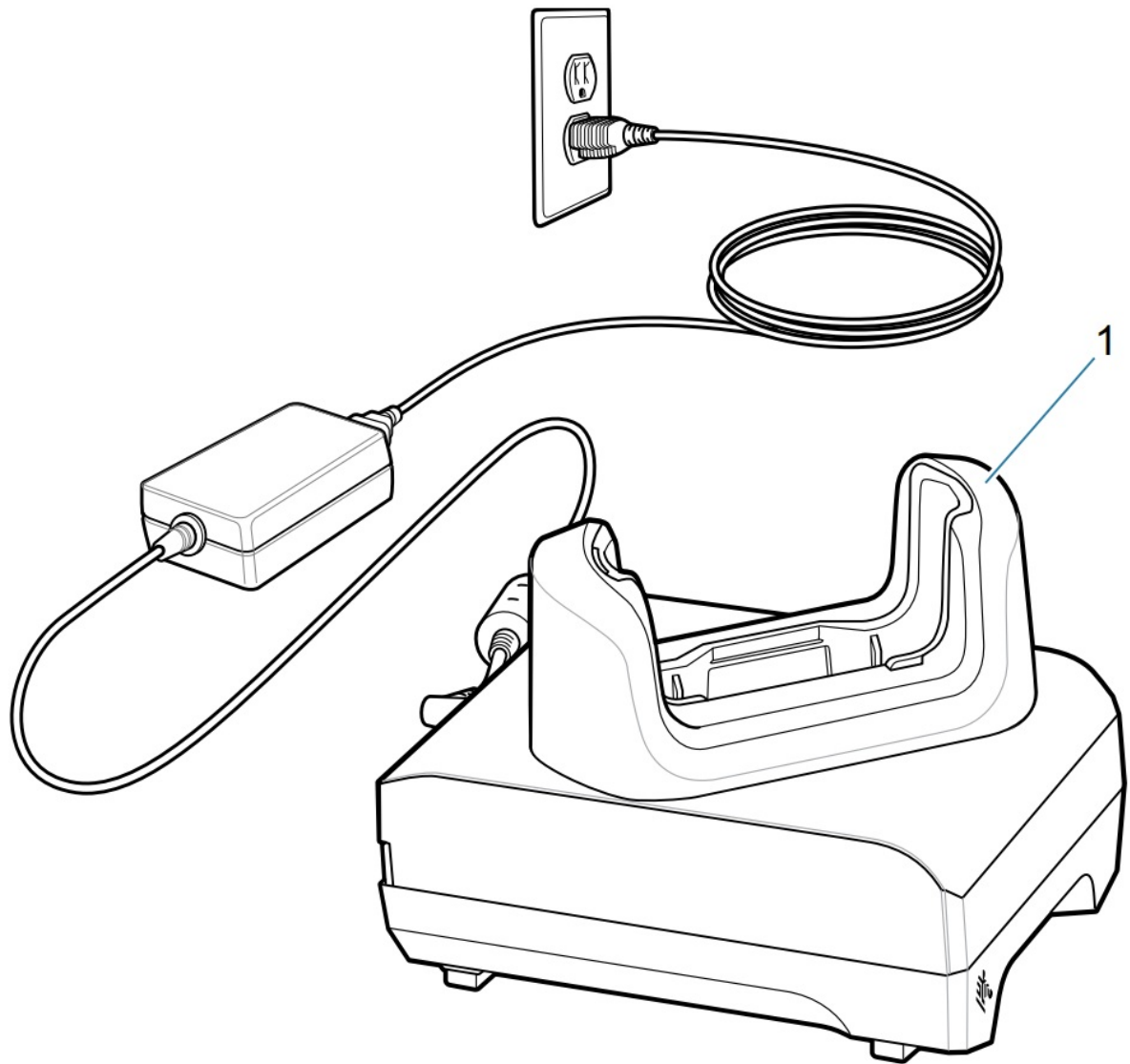
### 1-Slot Charge Only Cradle



1	Charging slot
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### 1-Slot USB/Ethernet Cradle

**Figure 3** Front View

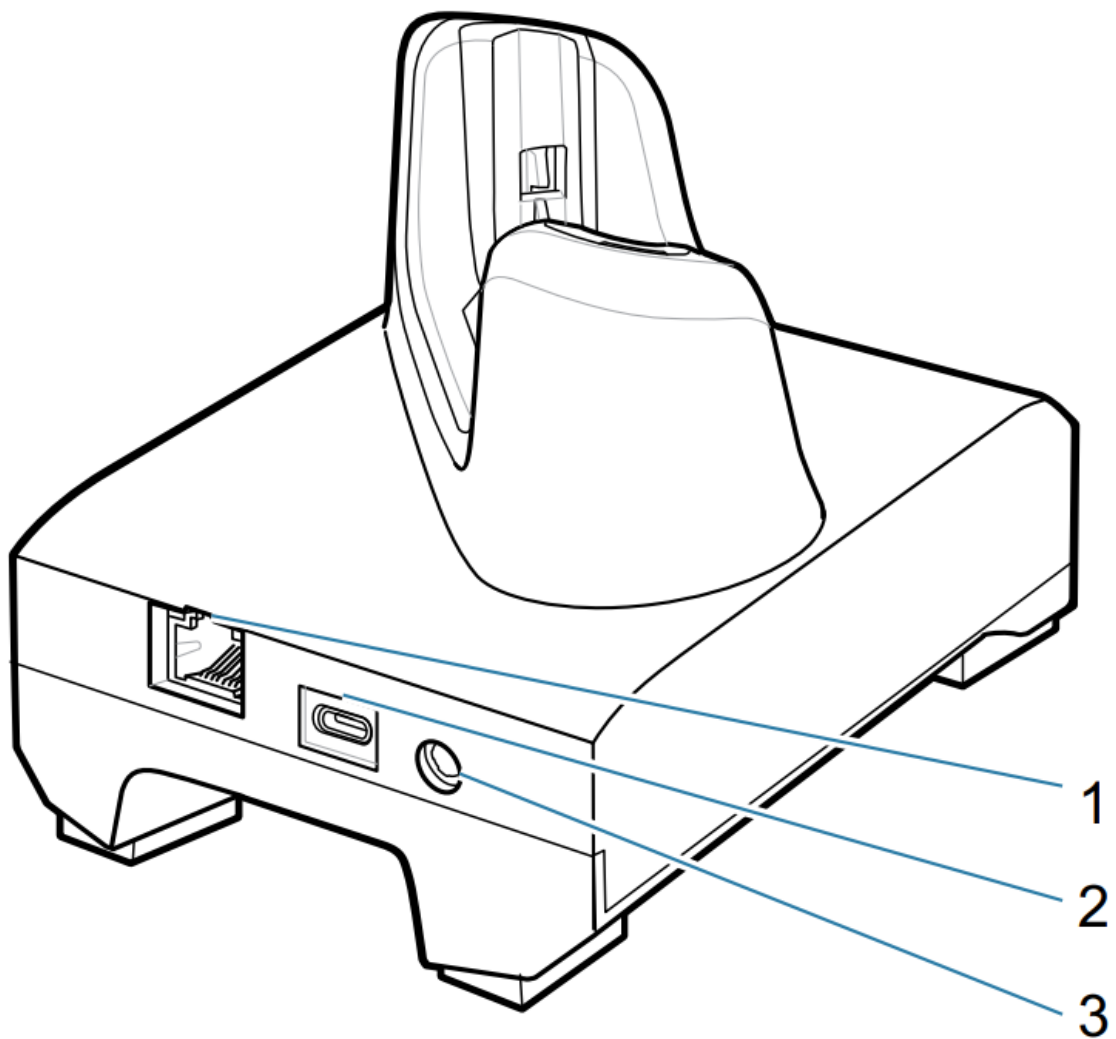


1

Charging slot

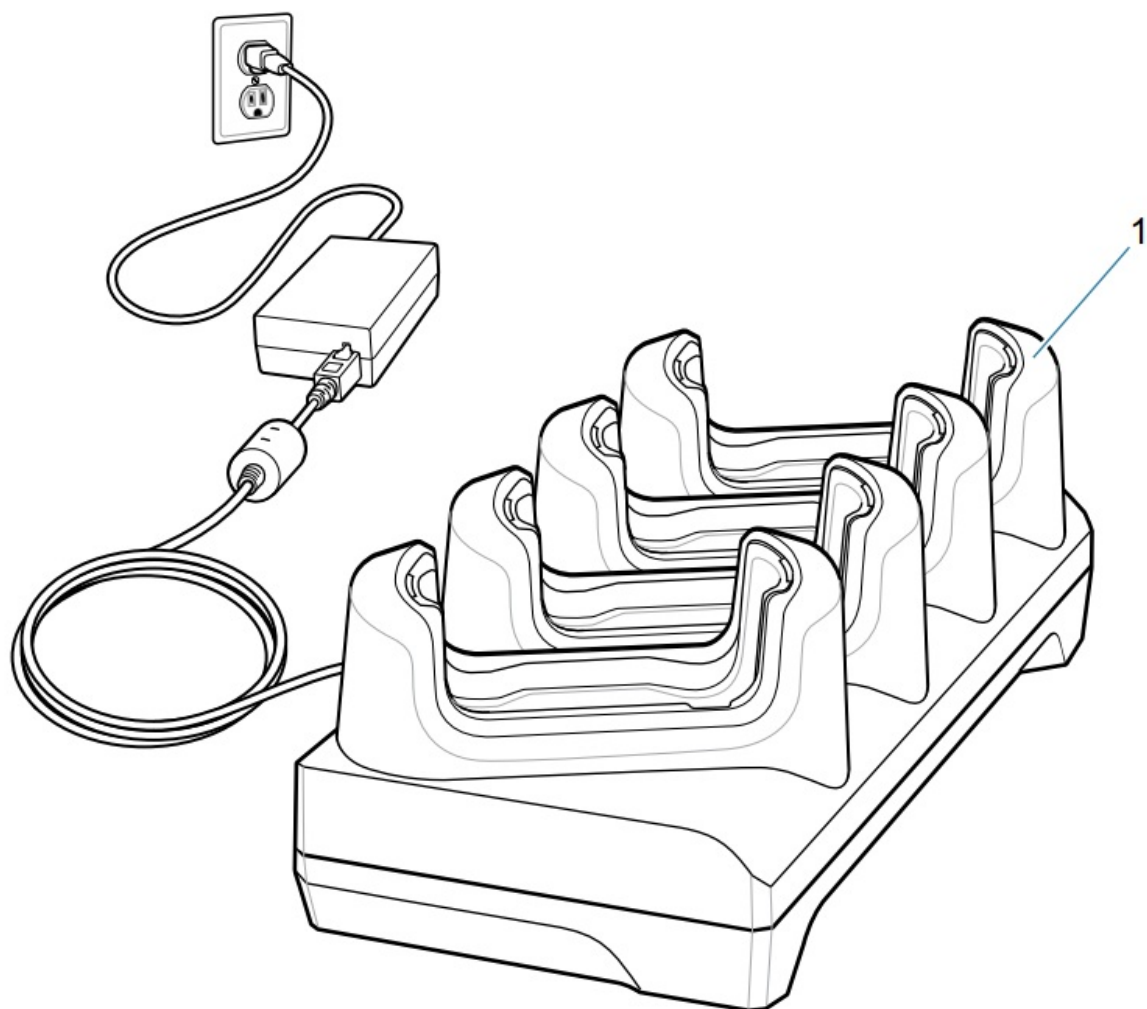


## Figure 4 Back View



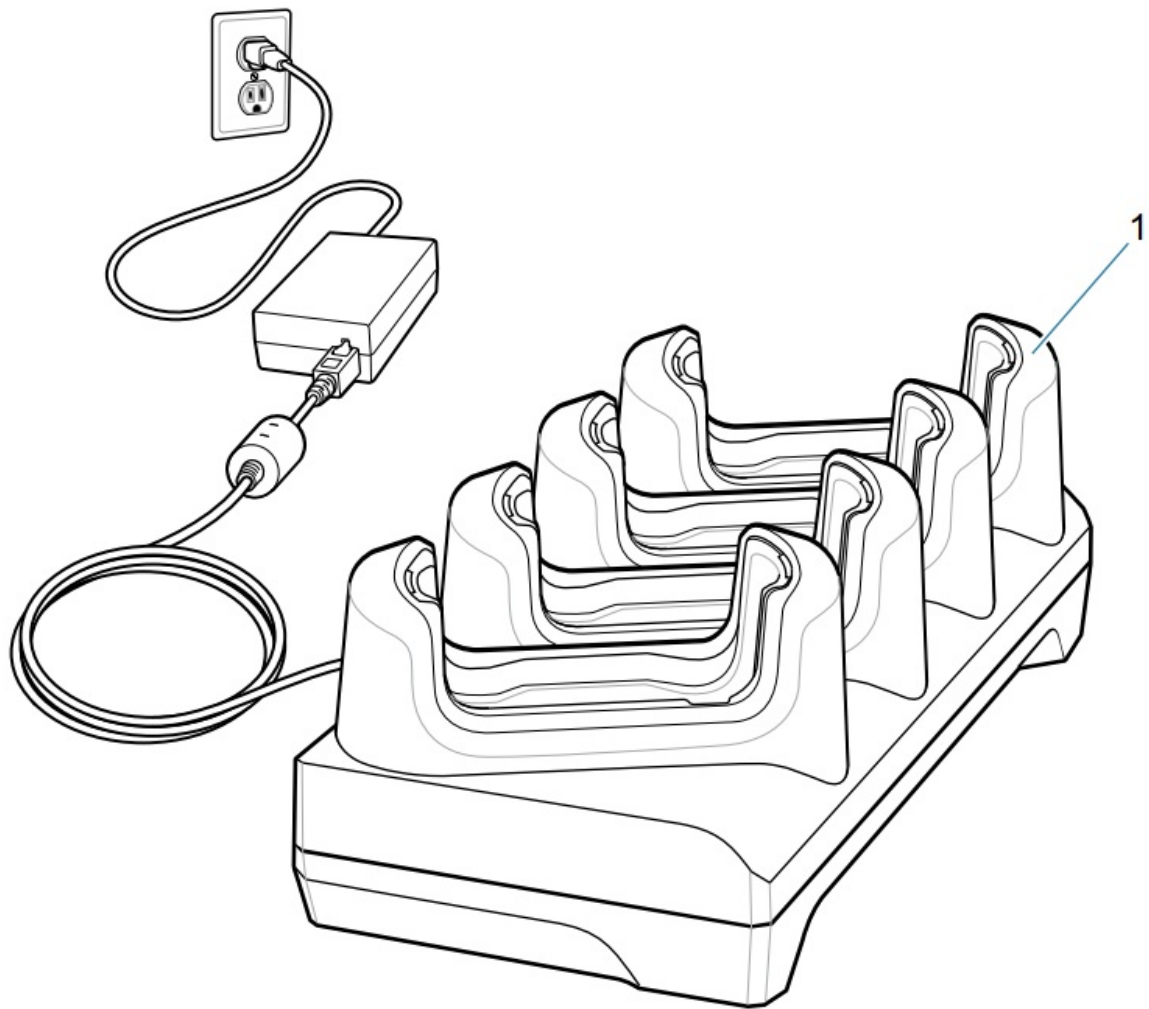
1	Charging slot
2	USB-C port
3	DC power port

**4-Slot Charge Only Cradle**



1	Charging slot
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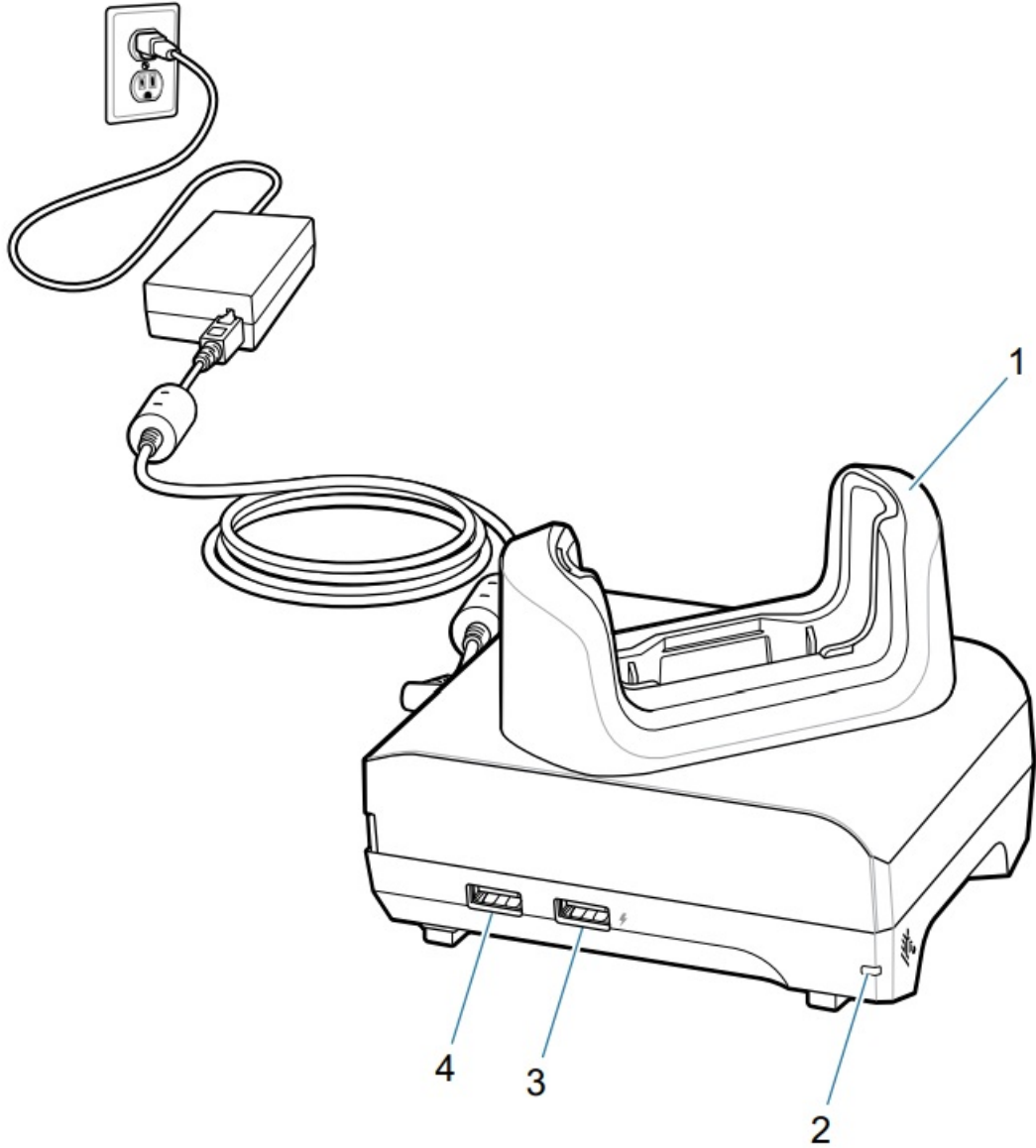
#### 4-Slot Charge Only Locking Cradle



Item	Name	Description
1	Power LED	Indicates that power is applied to each cradle slot.

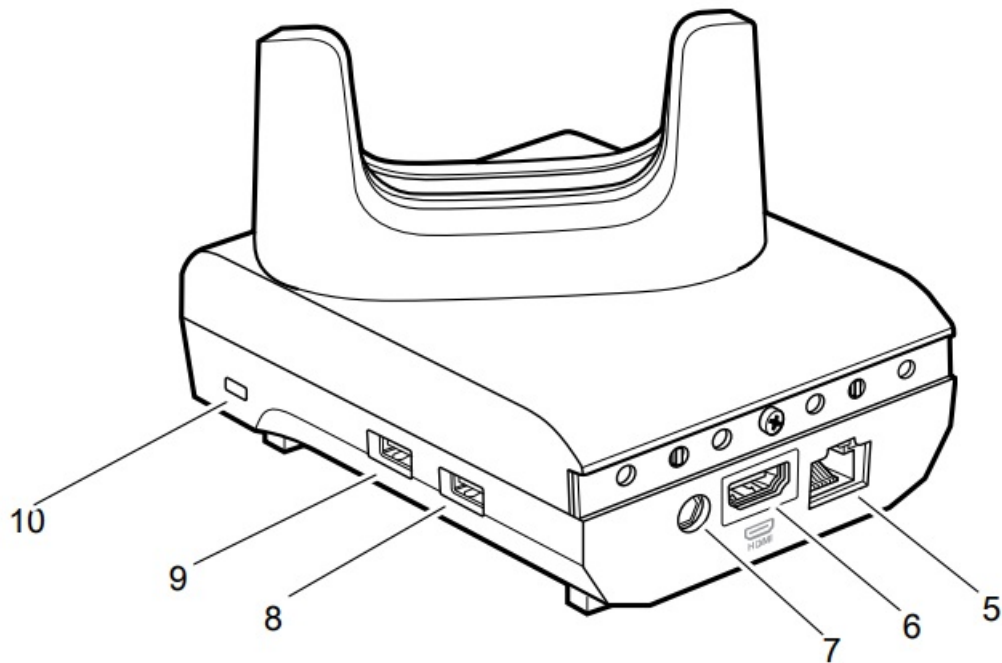
#### 1-Slot Workstation Cradle

**Figure 5** Front Left View



Item	Name	Description
1	Charging slot	Holds the device during charging.
2	Power LED	Indicates that power is applied to the cradle.
3	1.5 A USB port	USB Type A port for mouse or keyboard, or personal mobile device .
4	0.5 A USB port	USB Type A port for mouse or keyboard.

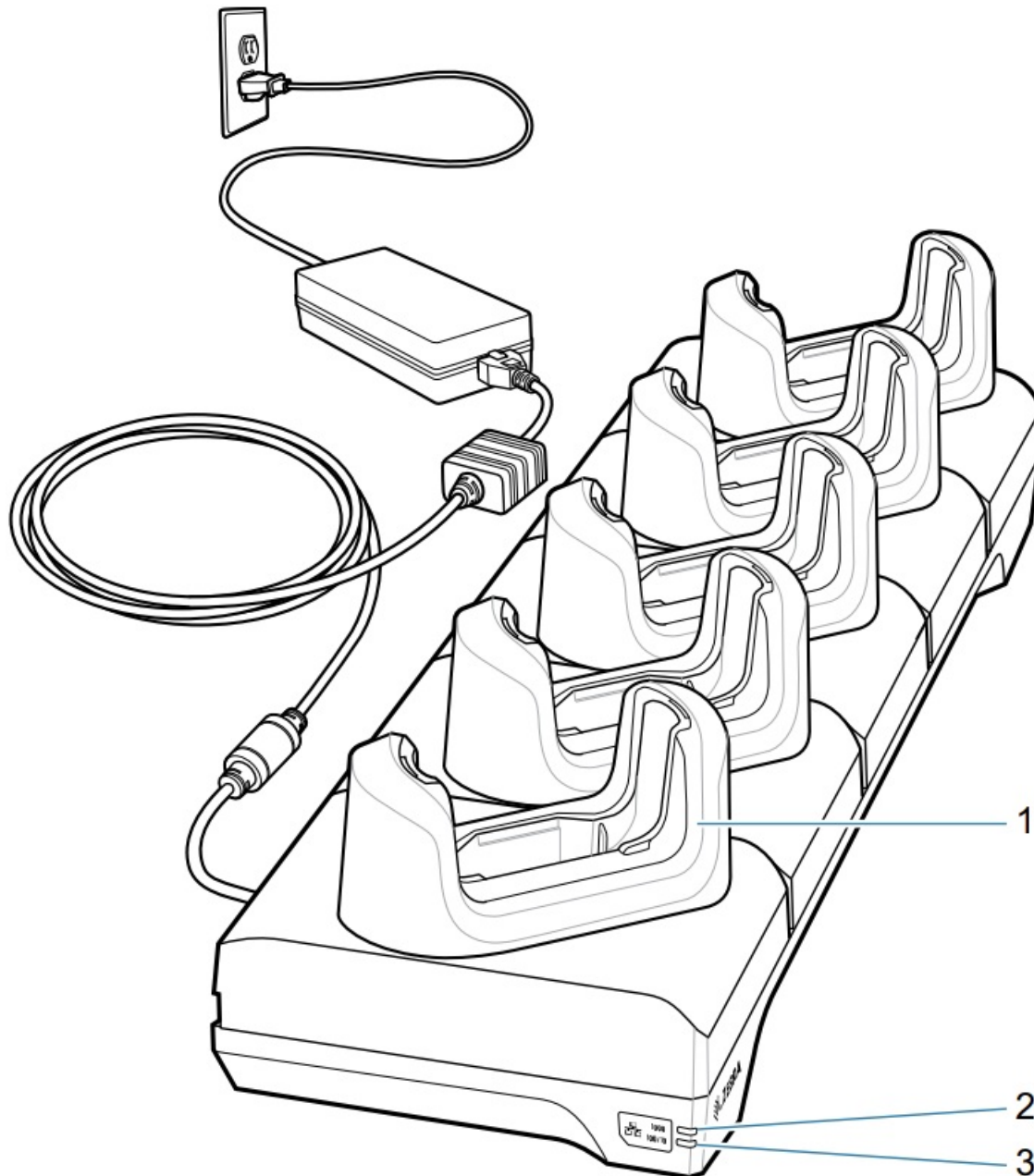
**Figure 6** Rear Right View



Item	Name	Description
5	Ethernet port	Connects to an Ethernet network.
6	HDMI port	Connects to monitor.
7	Power port	Provides power to the cradle.
8	USB Type A port	Connection for mouse or keyboard.
9	USB Type A port	Connection for mouse or keyboard.
10	Kensington slot	Connecting point for Kensington locking system to secure cradle.

**5-Slot Ethernet Cradle**

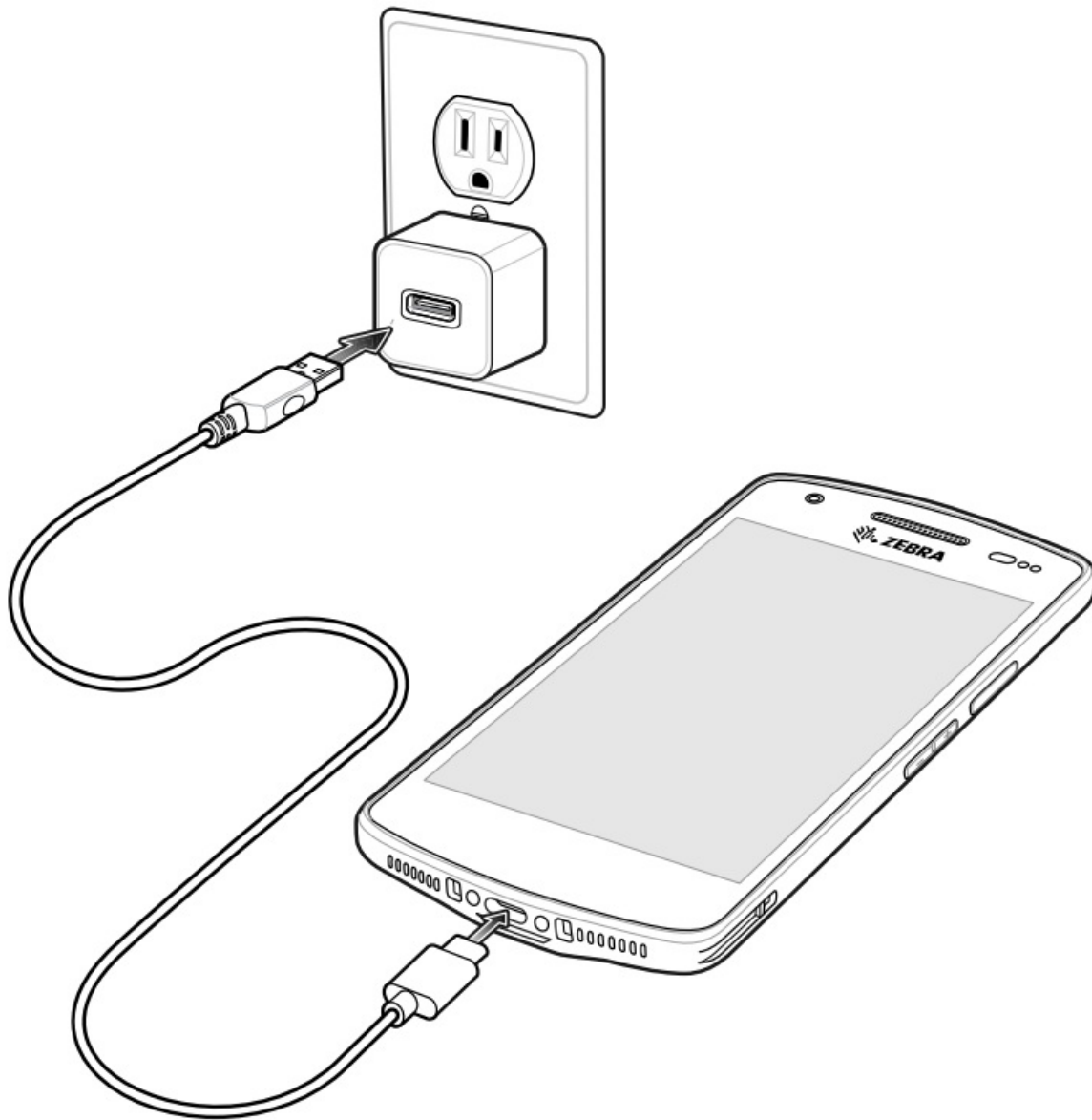
**Figure 7** 5-Slot Ethernet Cradle



Item	Name	Description
1	Charging slot	Holds the device during charging.
2	1000 LED	Indicates 1 Gbps transfer rate.
3	100/10 LED	Indicates 100 or 10 Mbps transfer rate.

### USB Communication and Charge 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.

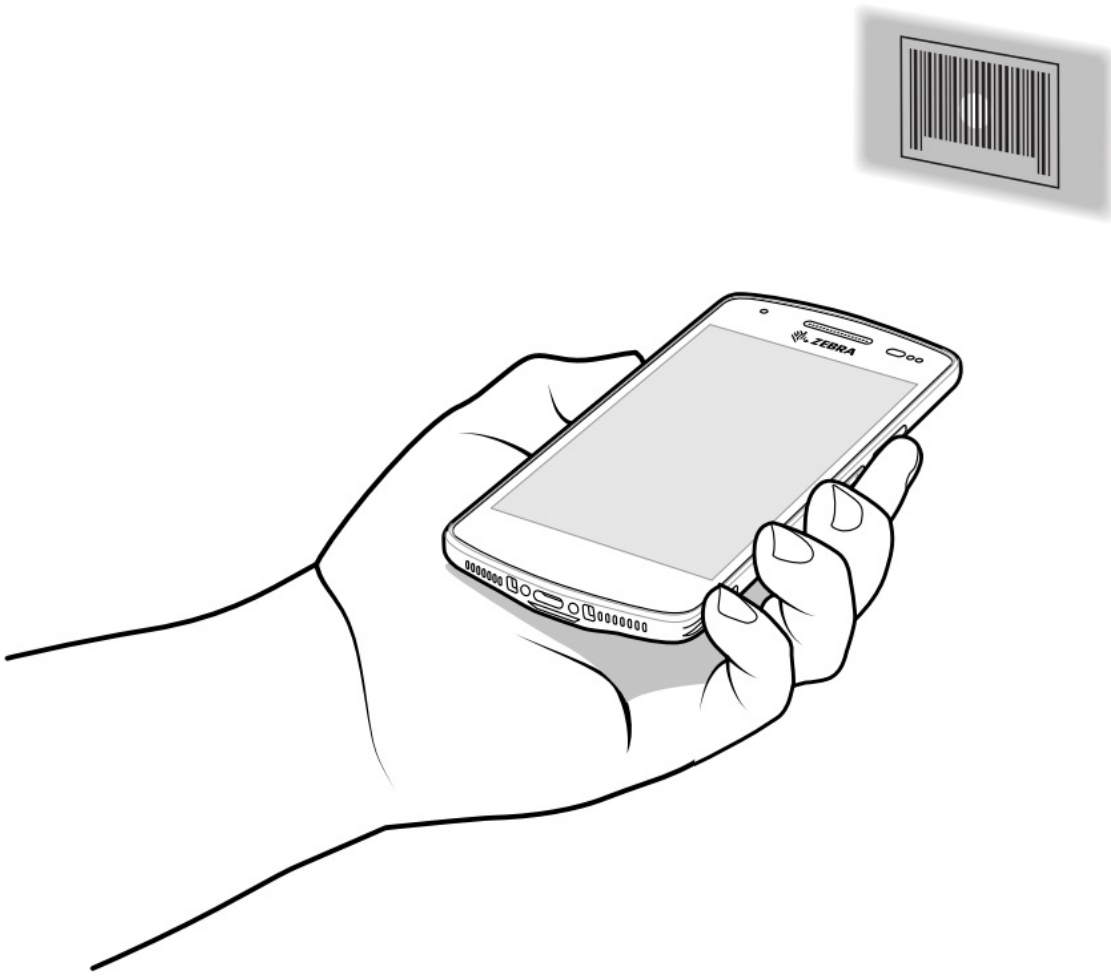


## Scanning with Internal Imager

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

To scan with the internal imager:

1. Ensure that an app is open on the device and a text field is in focus (text cursor in text field).



2. Point the exit window on the top of the device at a barcode.
3. Press and hold the scan button.

The green aiming dot with white illumination turns on to assist in aiming.

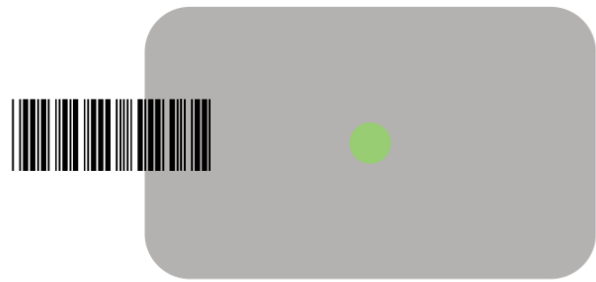
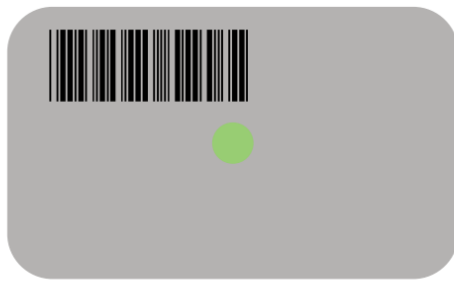


**NOTE:** When the device is in Picklist mode, the imager does not decode the barcode until the crosshair or aiming dot touches the barcode

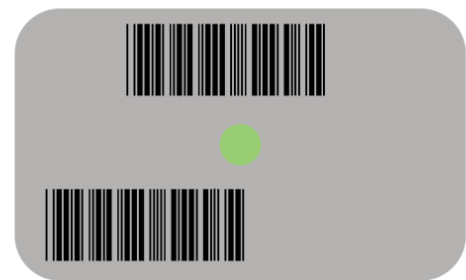
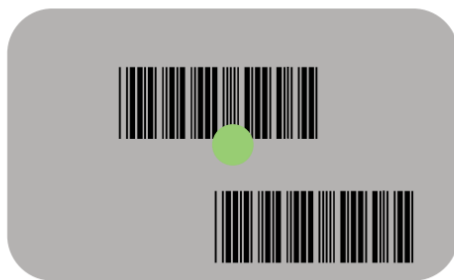
4. Ensure the barcode is within the area formed by the white illumination. The green aiming dot increases visibility in bright lighting conditions.



**Figure 8** Aiming Pattern



**Figure 9** Pick List Mode with Multiple Barcodes



5. The Data Capture LED lights green and a beep sounds, by default, to indicate the barcode was decoded successfully.
6. Release the scan button.



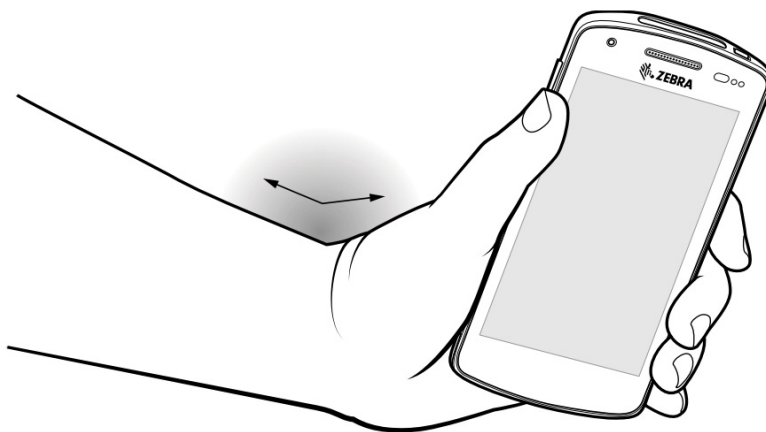
**NOTE:** Imager decoding usually occurs instantaneously. The device repeats the steps required to take a digital picture (image) of a poor or difficult barcode as long as the scan button remains pressed.

7. The barcode content data displays in the text field.

## Ergonomic Considerations



**CAUTION:** Avoid extreme wrist angles.


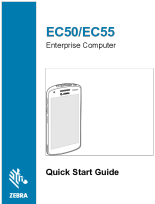
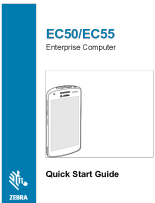


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**Documents / Resources**

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