

WT5400/WT6400

Wearable Computer



ZEBRA

Quick Start Guide

2024/07/16

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Device Features

This section lists the features of the WT6400 touch only, WT6400 touch with keypad, and the WT5400 wearable computers.

Figure 1 Top View - WT6400 Touch Only

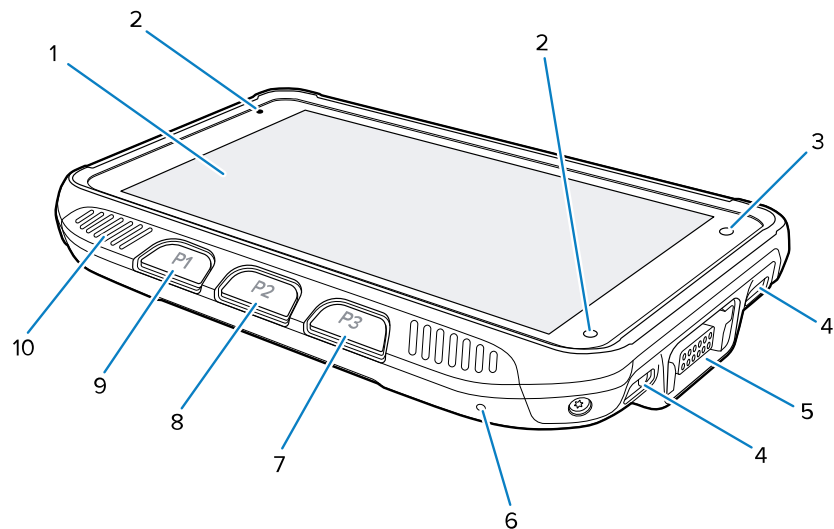
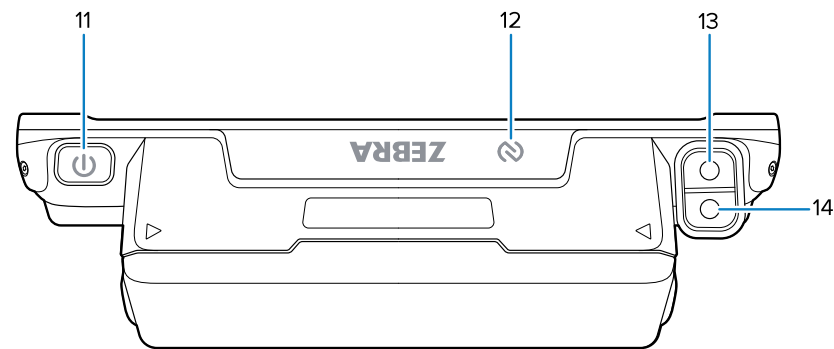


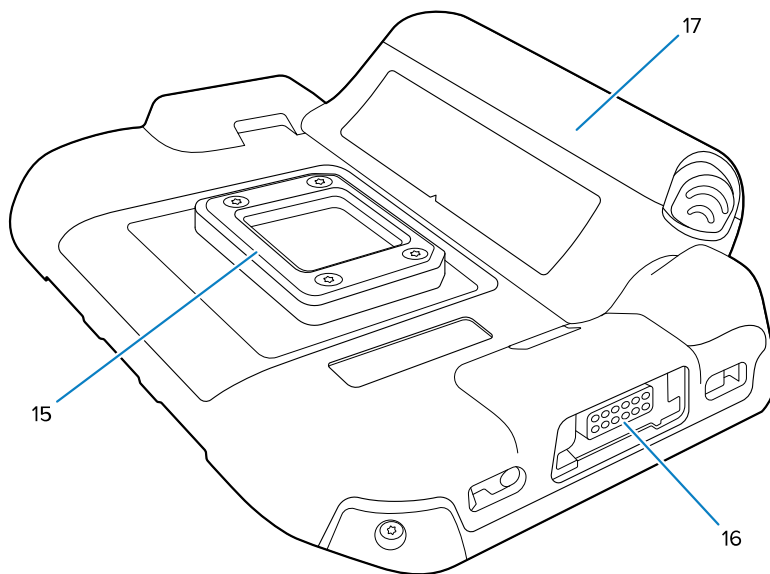
Figure 2 Back View - WT6400 Touch Only



Number	Item	Function
1	Touchscreen display	Displays all information needed to operate the device.
2	Notification/ Charge LED (two locations)	Indicates charging status while charging with a USB charge cable or cradle, and provides notifications from applications.
3	Ambient light sensor	Determines ambient light for controlling display backlight intensity.
4	Charging contacts (four locations)	Connection points for charging the power source.

Number	Item	Function
5	Right interface connector	Provides USB host and client communication, audio and device charging via cables and accessories.
6	Microphone	Use for voice communication.
7	P3 button	Use as the Enter button. If programmed as PTT, initiates Push-To-Talk communication.
8	P2 button	Increases volume. Programmable.
9	P1 button	Decreases volume. Programmable.
10	Speaker	Provides audio output for video and music playback.
11	Power button	Turns the display on and off. Press and hold to reset the device and power off.
12	NFC antenna	Provides communication with other NFC-enabled devices.
13	Side-facing camera flash	LED light source for camera flash and illuminating low-light environments.
14	Side-facing camera	Provides scanning and capturing photos or videos.

Figure 3 Bottom View - WT6400 Touch Only



Number	Item	Function
15	Cleat	Provides alignment and secures the device to the wrist and hip mounts.
16	Left interface connector	Provides USB host and client communication, audio and device charging via cables and accessories.
17	Battery	Provides power to the device.

Figure 4 Top View - WT6400 Touch + Keypad

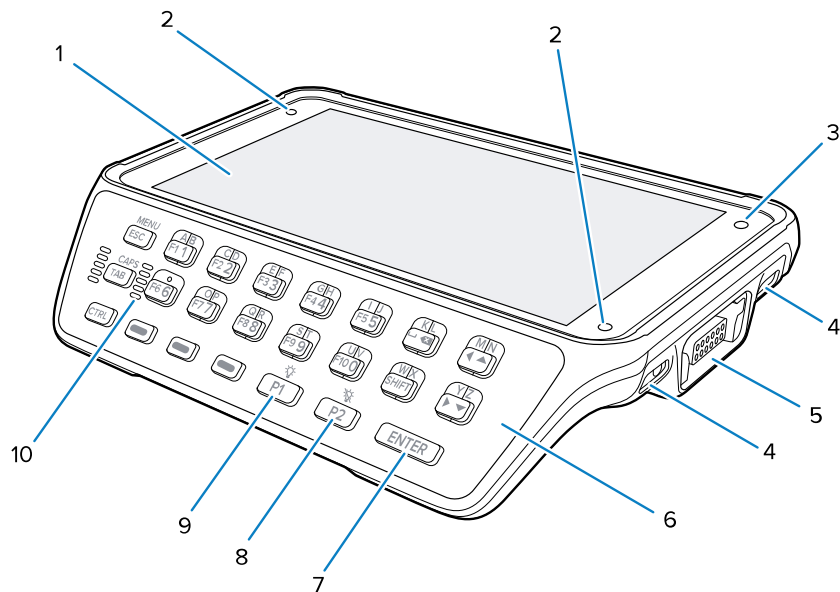
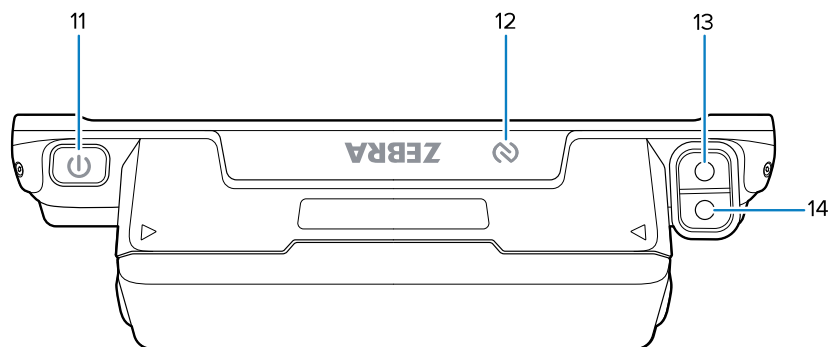


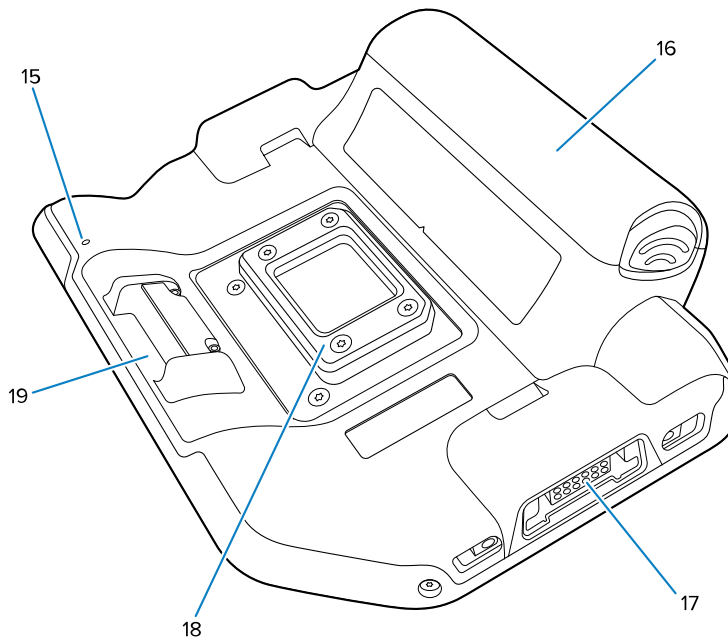
Figure 5 Back View - WT6400 Touch + Keypad



Number	Item	Function
1	Touchscreen display	Displays all information needed to operate the device.
2	Notification/ Charge LED (two locations)	Indicates battery charging status while charging with a USB charge cable or cradle and provides notifications from applications.
3	Ambient light sensor	Determines ambient light for controlling display backlight intensity.
4	Charging contacts (four locations)	Connection points for charging the power source.
5	Right interface connector	Provides USB host and client communication, audio and device charging via cables and accessories.

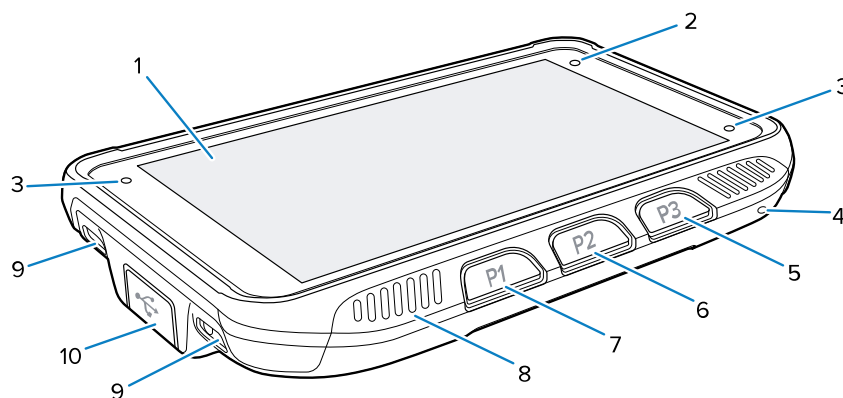
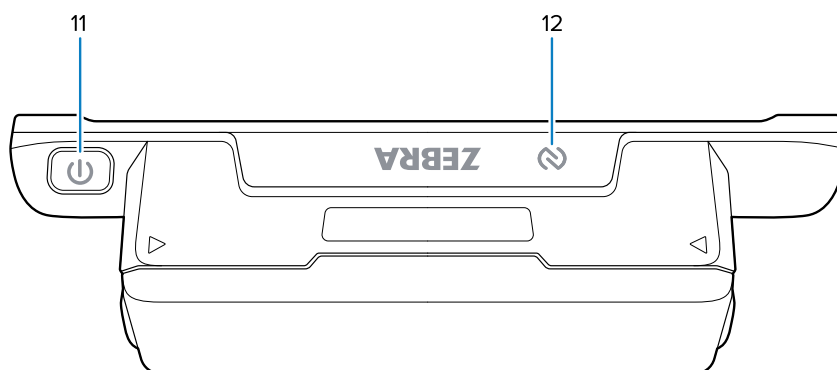
Number	Item	Function
6	Keypad	Allows for text input, navigating through the device interface, and executing commands.
7	Enter button	Use as the Enter button. If programmed as PTT, initiates Push-To-Talk communication.
8	P2 button	Increases volume. Programmable.
9	P1 button	Decreases volume. Programmable.
10	Speaker	Provides audio output for video and music playback.
11	Power button	Turns the display on and off. Press and hold to reset the device and power off.
12	NFC antenna	Provides communication with other NFC-enabled devices.
13	Side-facing camera flash	LED light source for camera flash and illuminating low-light environments.
14	Side-facing camera	Provides scanning and capturing photos or videos.

Figure 6 Bottom View - WT6400 Touch + Keypad



Number	Item	Function
15	Microphone	Use for voice communication.
16	Battery	Provides power to the device.
17	Left interface connector	Provides USB host and client communication, audio and device charging via cables and accessories.
18	Cleat	Provides alignment and secures the device to the wrist and hip mounts.

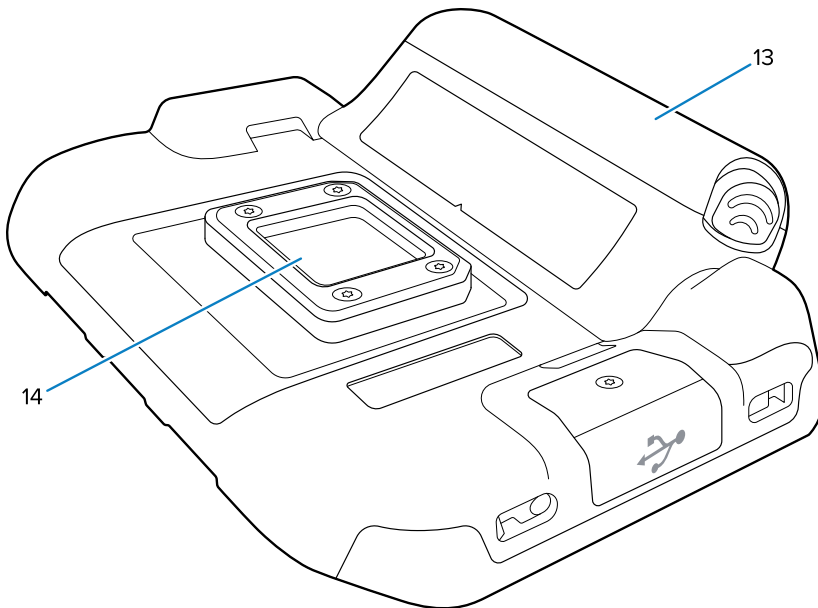
Number	Item	Function
19	Wrist mount release	Extended button used to release the device from the wrist mount.

Figure 7 Top View - WT5400**Figure 8** Back View - WT5400

Number	Item	Function
1	Touchscreen display	Displays all information needed to operate the device.
2	Ambient light sensor	Determines ambient light for controlling display backlight intensity.
3	Notification/ Charge LED (two locations)	Indicates charging status while charging with a USB charge cable or cradle and provides notifications from applications.
4	Microphone	Use for voice communication.
5	P3 button	Use as the Enter button. If programmed as PTT, initiates Push-To-Talk communication.
6	P2 button	Increases volume. Programmable.

Number	Item	Function
7	P1 button	Decreases volume. Programmable.
8	Speaker	Provides audio output for video and music playback.
9	Charging contacts (four locations)	Connection points for charging the power source.
10	Left USB connector with cover	Provides USB host and client communication, audio and device charging via cables and accessories. Cover provides dust-proof protection.
11	Power button	Turns the display on and off. Press and hold to reset the device and power off.
12	NFC antenna	Provides communication with other NFC-enabled devices.

Figure 9 Bottom View - WT5400



Number	Item	Function
13	Battery	Provides power to the device.
14	Cleat	Provides alignment and secures the device to the wrist and hip mounts.

Installing the Battery

How to install the battery into the device.

1. Align the battery with the battery well.

Figure 10 Standard Battery Installation

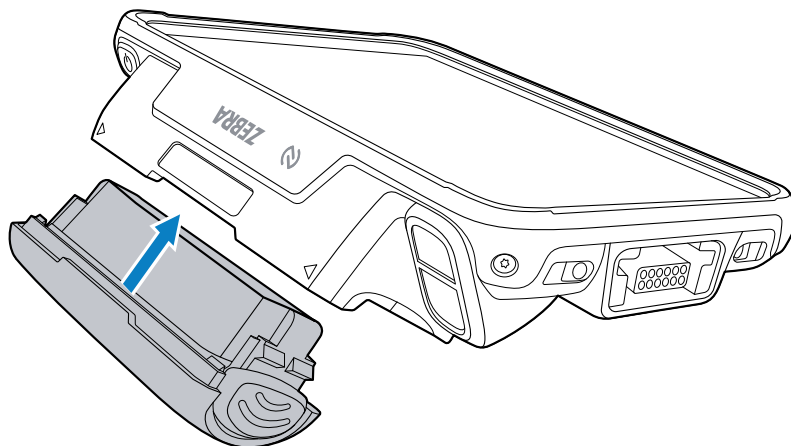
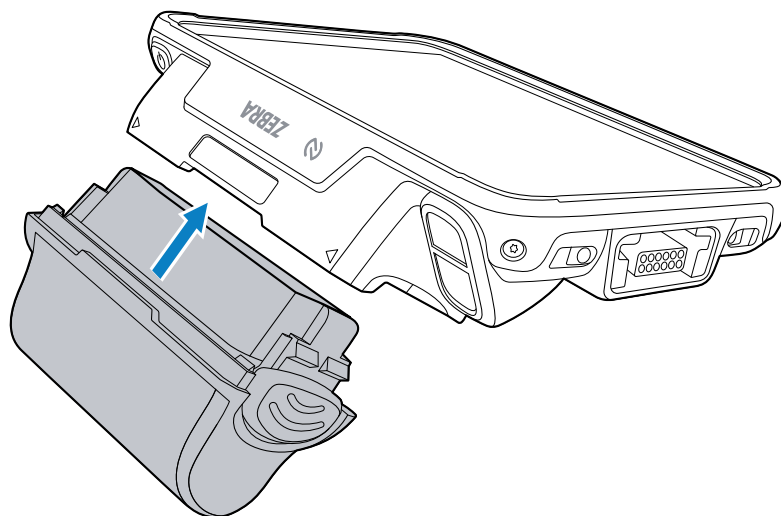


Figure 11 Extended Battery Installation



2. Insert the battery fully until it snaps into place.

Figure 12 Standard Battery Installation

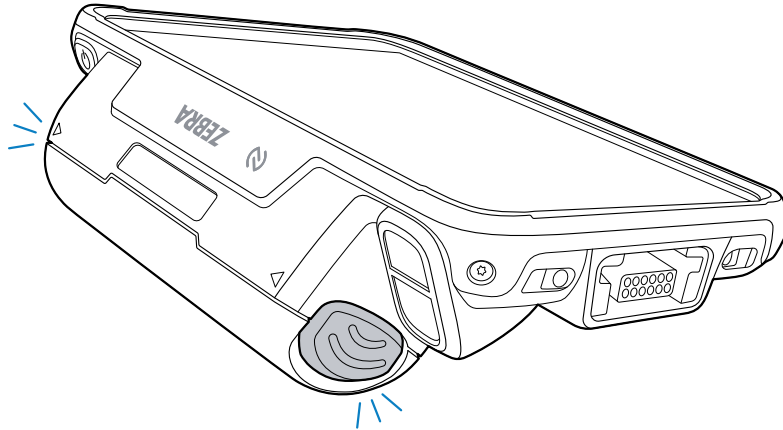
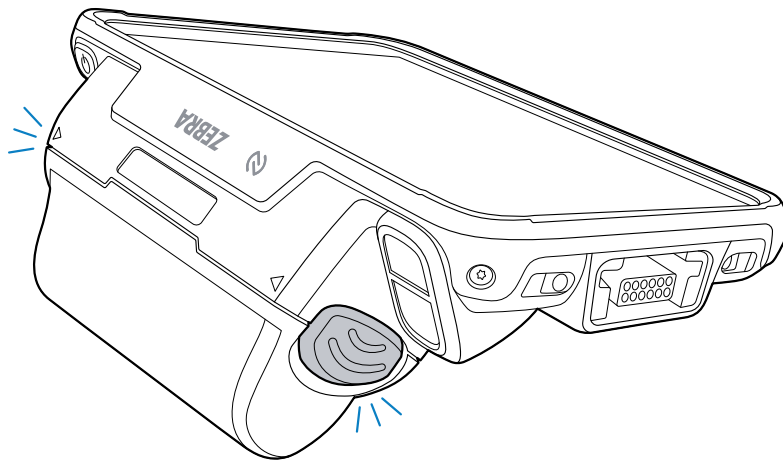


Figure 13 Extended Battery Installation



Replacing the Battery

How to replace the battery in the device.

1. Press the Power button to place the device in suspend mode.

2. Press the battery latches on both sides of the battery inward to release it.

Figure 14 Pressing Standard Battery Latches

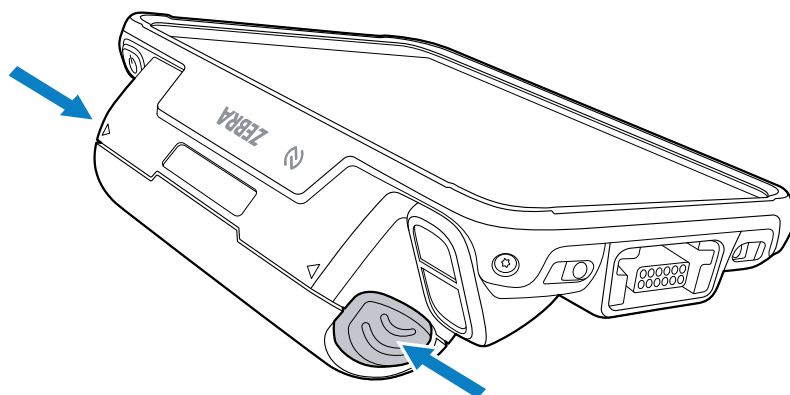
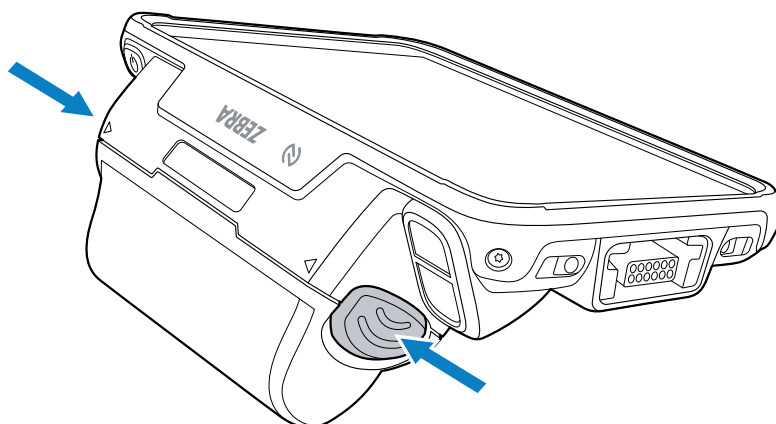


Figure 15 Pressing Extended Battery Latches



3. Lift the battery out of the battery well.

Figure 16 Standard Battery Removal

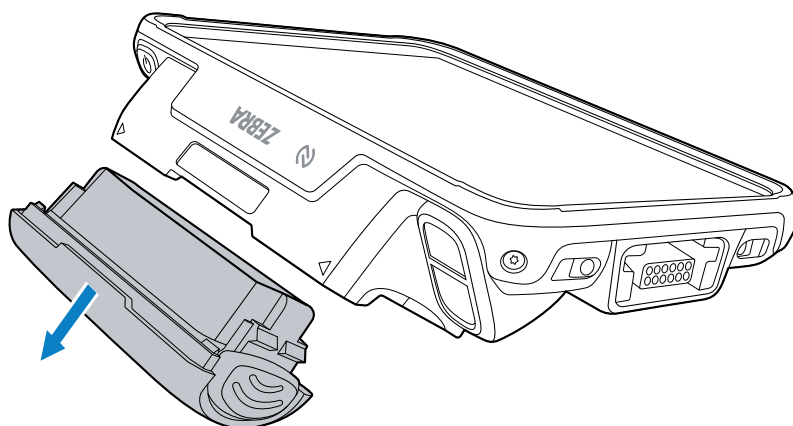
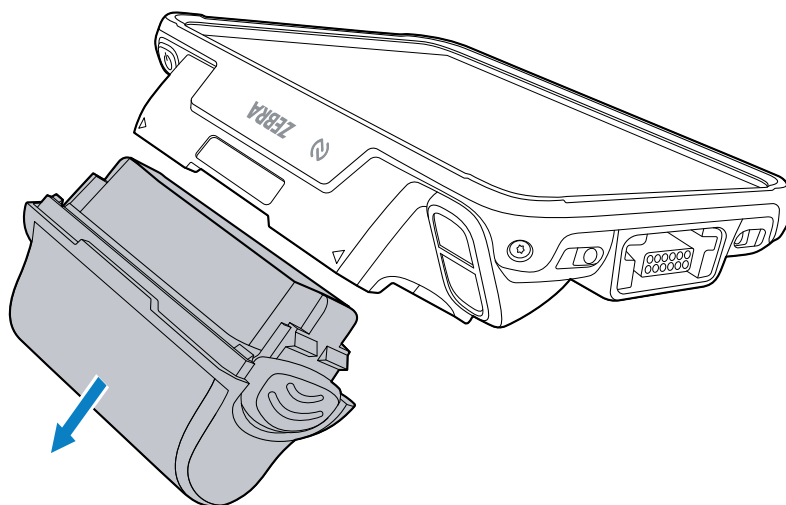


Figure 17 Extended Battery Removal

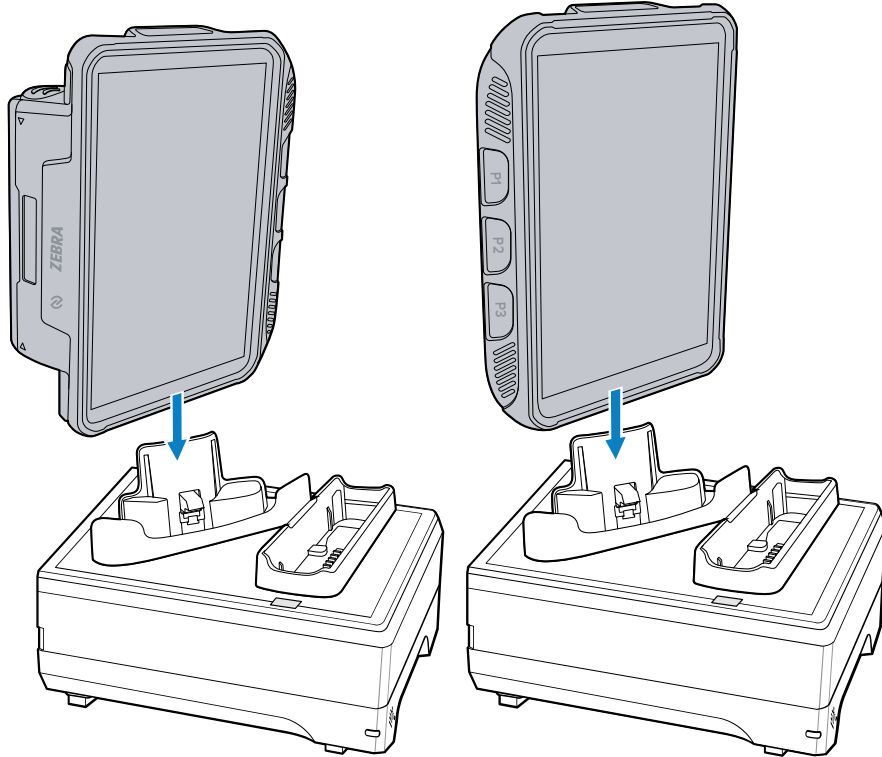


4. Align the replacement battery with the battery well, and then insert the battery until it snaps into place. For more information, go to [Installing the Battery](#) on page 9.

Charging the Device

The device charges when placed into a charging cradle. You can use it with either the standard or extended battery.

1. Insert either end of the device into the device charging slot.



2. Ensure the device is seated properly.

The device Charge LED blinks indicating charging.

The cradle Charging LED lights amber while charging, then turns solid green when fully charged.

The standard battery fully charges in approximately 4 hours at room temperature. The extended battery fully charges in approximately 5 hours and 30 minutes at room temperature.

Charging the Spare Battery

You can use a charging cradle to charge the spare battery.

1. Insert a spare battery into the spare battery slot.

2. Gently press down on the battery until it snaps into place.

Figure 18 Standard Spare Battery

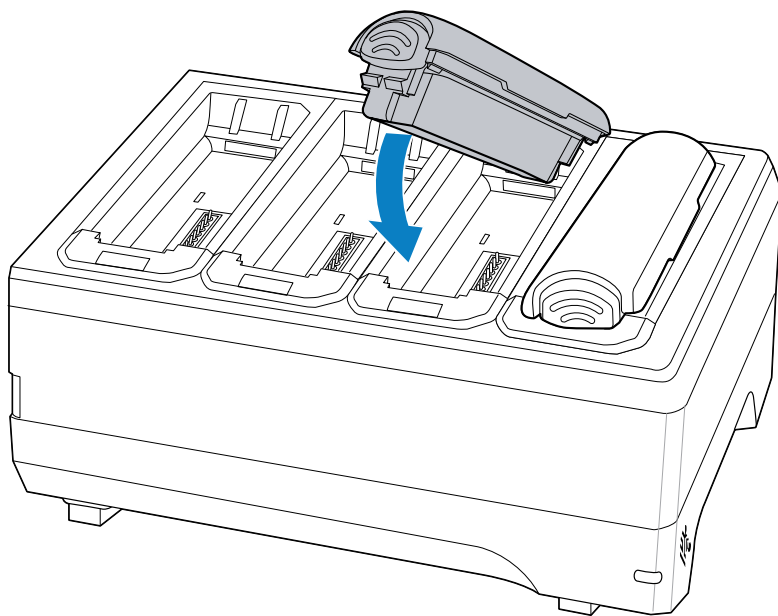
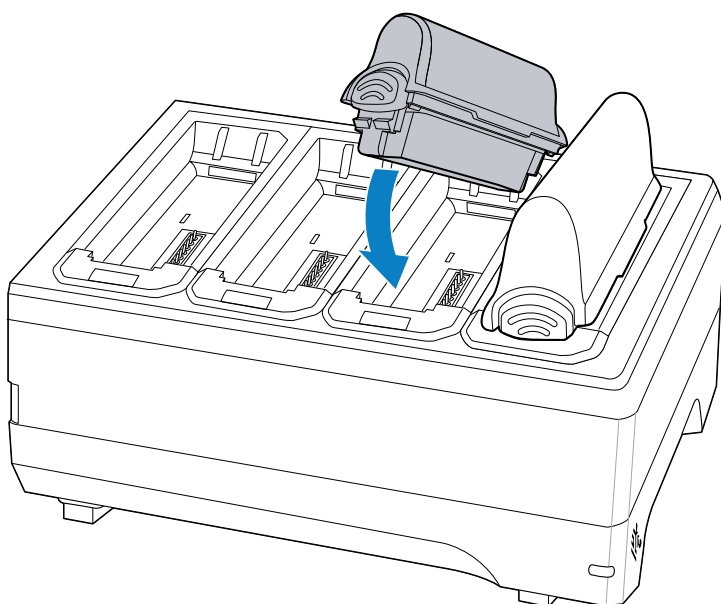


Figure 19 Extended Spare Battery



Charging Indicators

LEDs located beside each battery slot indicate the charge status of the battery.

Table 1 Charging Indicators

State	Indication
Off	The battery is not charging. The battery is not inserted correctly in the cradle or connected to a power source. Charger/cradle is not powered.
Solid Amber	Healthy battery is charging.
Solid Green	Healthy battery charging is complete.
Fast Blinking Red (2 blinks/second)	Charging error. For example: <ul style="list-style-type: none"> Temperature is too low or too high. Charging has gone on too long without completion (typically 8 hours).
Solid Red	Unhealthy battery is charging or fully charged.



NOTE: When trying to power on the device, a quick red blink of the Charging LED indicates that it does not have enough battery power to turn on. Charge the battery or replace it.

Charging Temperature

Charge batteries in temperatures from 0°C to 40°C (32°F to 104°F). The device or cradle always performs battery charging safely and intelligently. At higher temperatures (for example, approximately 37°C (98°F)), the device or cradle may alternately enable and disable battery charging to keep the battery at acceptable temperatures. The device and cradle indicate when charging is disabled due to abnormal temperatures via its LED.

Charging Accessories

Use one of the following accessories to charge the device and/or spare battery.

Table 2 Charging and Communication

Description	Part Number	Charging		Communication	
		Battery (In Device)	Spare Battery	USB	Ethernet
1-Slot Charging Cradle	CRD-WT5X6-1S1BC-01	Yes	Yes	No	No
5-Slot Charge Only Cradle	CRD-WT5X6-5S5BC-01	Yes	Yes	No	No
5-Slot Ethernet Cradle	CRD-WT64-5S5BE-01	Yes	Yes	No	Yes
10-Slot Charge Only Cradle	CRD-WT5X6-10SC-01	Yes	No	No	No
4-Slot Battery Charger	SAC-WT5X6-4SC-01	No	Yes	No	No
20-Slot Battery Charger	SAC-WT5X6-20SC-01	No	Yes	No	No

Table 2 Charging and Communication (Continued)

Description	Part Number	Charging		Communication	
		Battery (In Device)	Spare Battery	USB	Ethernet
USB-C to USB-C Communications and Charge Cable (WT5400)	CBL-EC5X-USBC3A-01	Yes	No	Yes	No
USB-A to USB-C Communications and Charge Cable (WT5400)	CBL-TC5X-USBC2A-01	Yes	No	Yes	No
USB Charging Cable (WT6400)	CBL-NGWT-USBCHG-01	Yes	No	Yes	No

1-Slot Charging Cradle

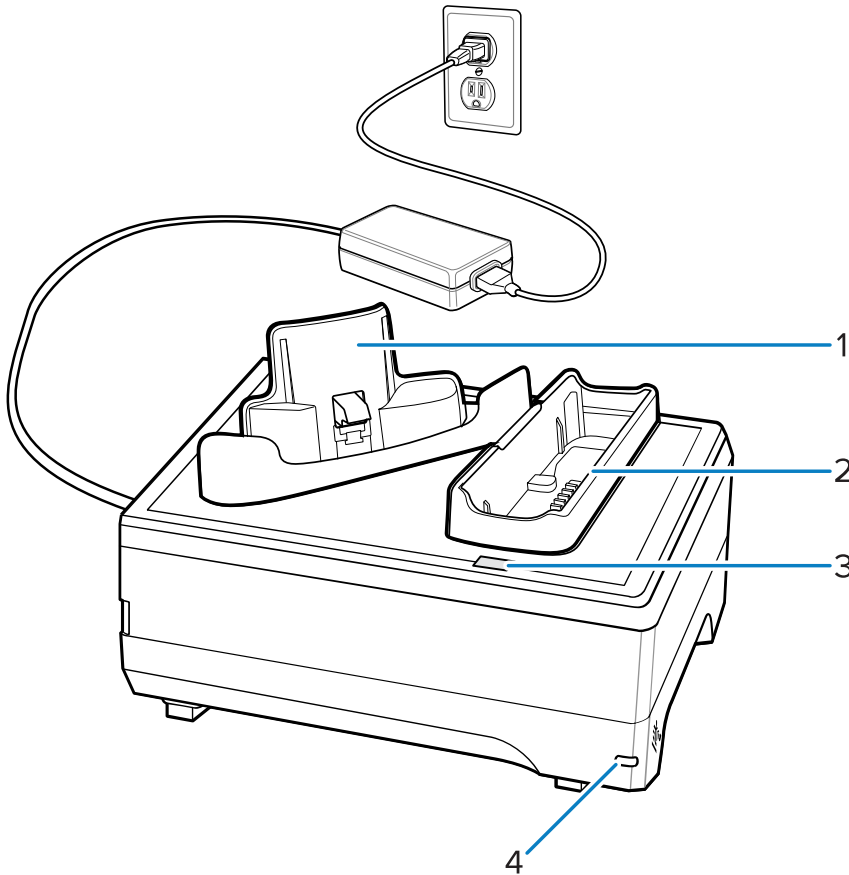
This cradle provides power to the device.



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

The 1-Slot Charging Cradle:

- Provides 5.4 VDC (nominal) power for operating the device.
- Charges a spare battery.



1	Device charging slot
2	Spare battery charging slot
3	Spare battery LED
4	Power LED

5-Slot Charge Only Cradle

Use the 5-Slot Charge Only Cradle to charge up to five devices and and five batteries.

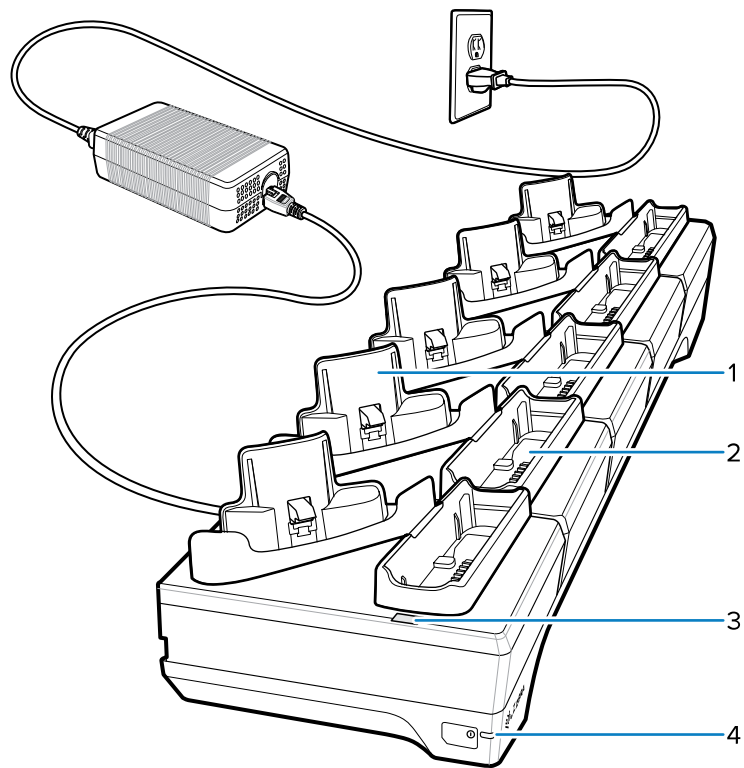


CAUTION: Ensure that you follow the guidelines for battery safety described in the Product Reference Guide.

The 5-Slot Charge Only Cradle:

- Provides 5.4 VDC (nominal) power for operating up to five devices.
- Simultaneously charges up to five devices.
- Simultaneously charges up to five spare batteries.

Figure 20 5-Slot Charge Only Cradle



1	Device charging slot
2	Spare battery charging slot
3	Spare battery LED
4	Power LED

10-Slot Charge Only Cradle

Use the 10-Slot Charge Only Cradle to charge up to ten devices.

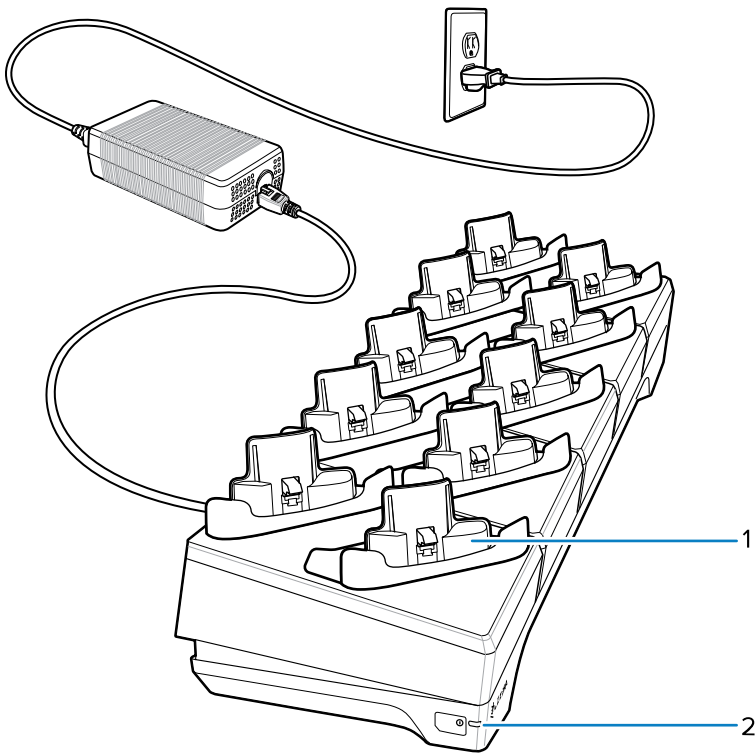


CAUTION: Ensure that you follow the guidelines for battery safety described in the Product Reference Guide.

The 10-Slot Charge Only Cradle:

- Provides 5.4 VDC (nominal) power for operating the device.
- Simultaneously charges up to 10 devices.

Figure 21 10-Slot Charge Only Cradle



1	Device charging slot
2	Power LED

5-Slot Ethernet Cradle

Use the 5-Slot Ethernet Cradle to charge up to five devices and and five batteries.



NOTE: The 5-Slot Ethernet Cradle can only be used with the WT6400 and is not compatible with the WT5400.

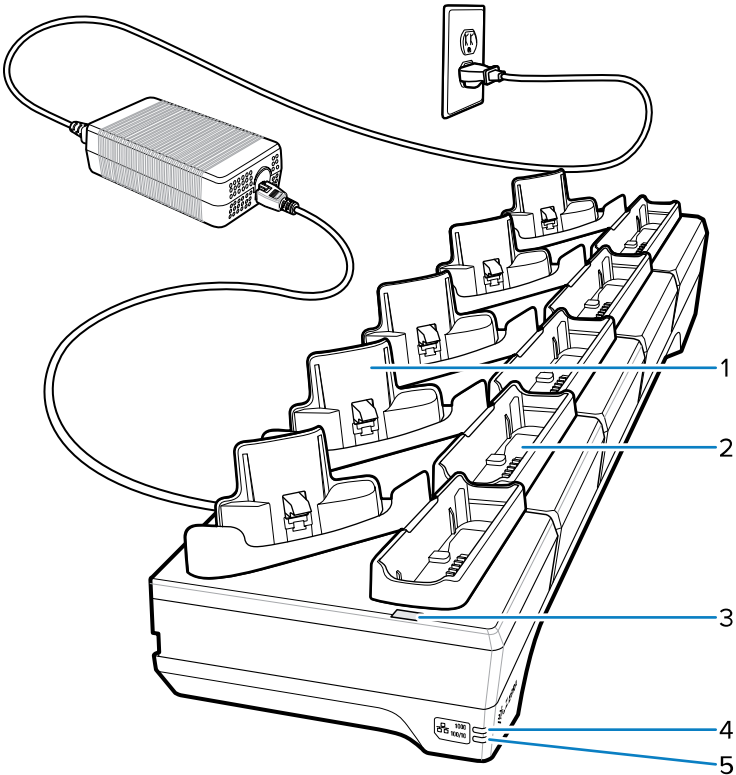


CAUTION: Ensure that you follow the guidelines for battery safety described in the Product Reference Guide.

The 5-Slot Ethernet Cradle:

- Provides 5.4 VDC (nominal) power for operating the device.
- Connects up to five devices to an Ethernet network.
- Simultaneously charges up to five devices.
- Simultaneously charges up to five spare batteries.

Figure 22 5-Slot Device Ethernet Cradle



1	Device charging slot
2	Spare battery charging slot
3	Spare battery charging LED
4	1000 LED
5	100/100 LED

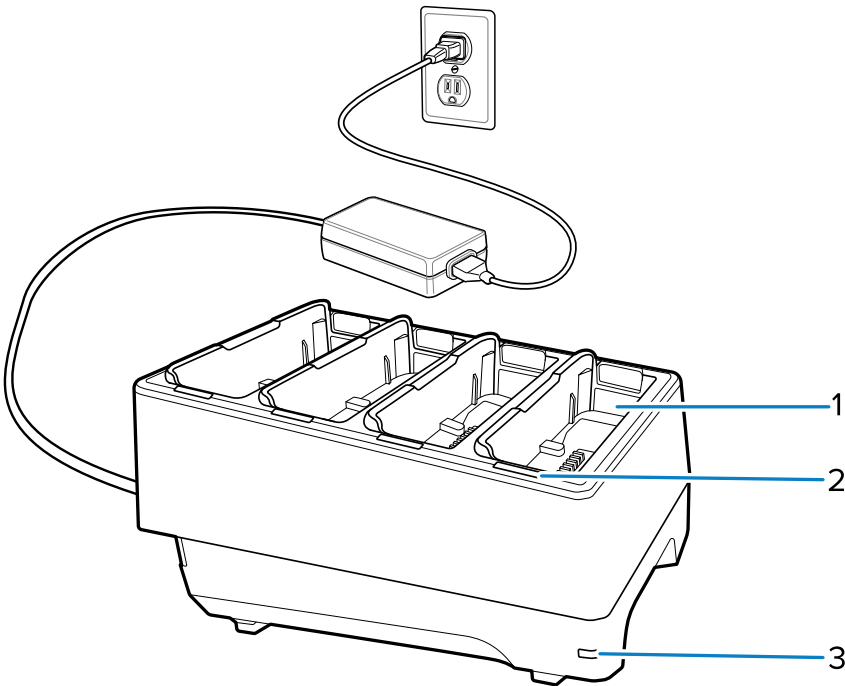
4-Slot Battery Charger

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 23 4-Slot Spare Battery Charger



1	Spare battery charging slot
2	Battery charging LEDs (4)
3	Power LED

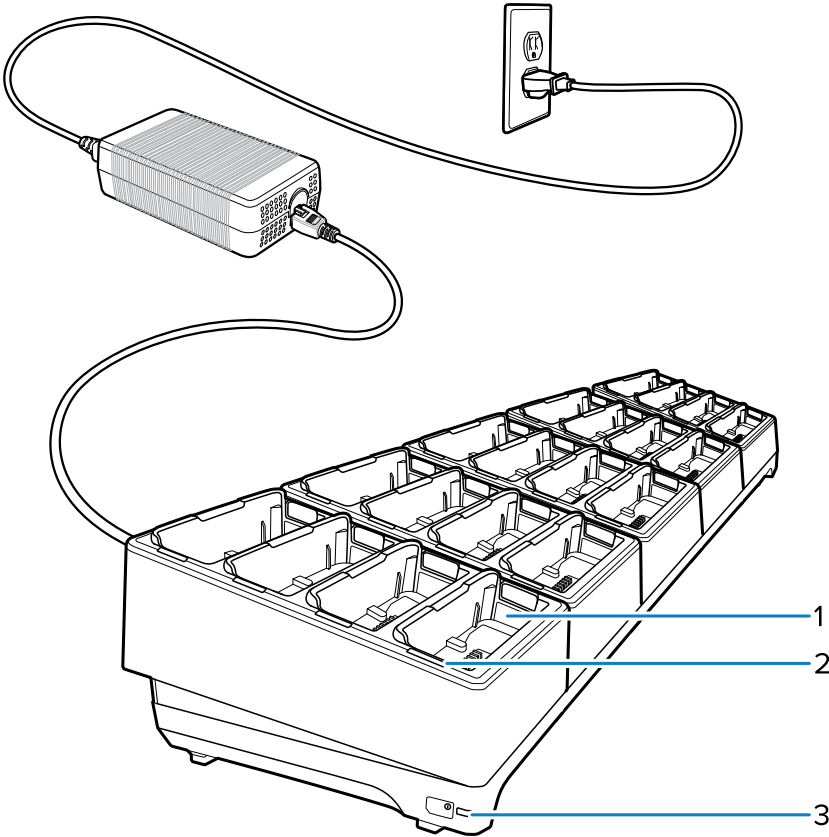
20-Slot Battery Charger

Use the 20-Slot Battery Charger to charge up to 20 spare batteries.



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

Figure 24 20-Slot Battery Charger



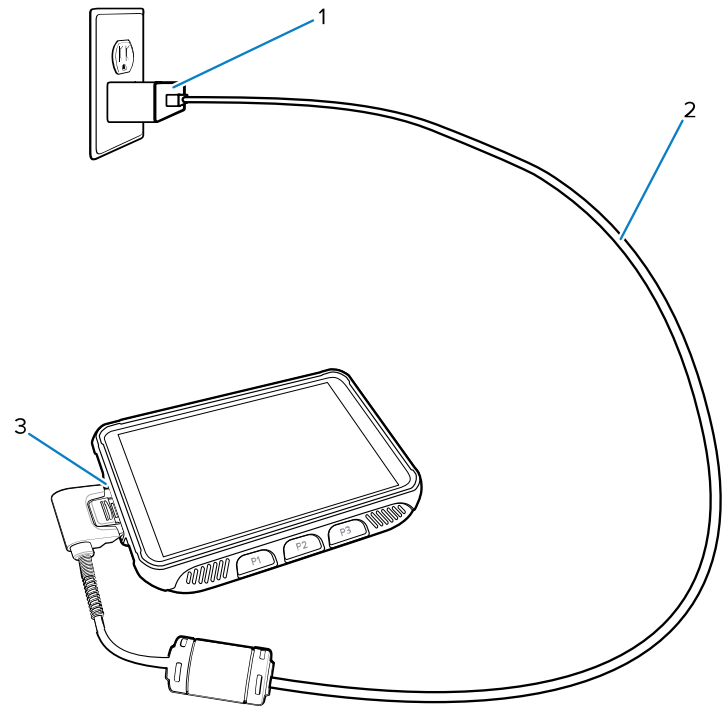
1	Spare battery charging slot (20)
2	Battery charging LEDs (20)
3	Power LED

USB/Charge Cable

The USB/Charging cables connect to the interface connector on the device. When attached to the device, it provides power for charging and allows the device to transfer data to a host computer.

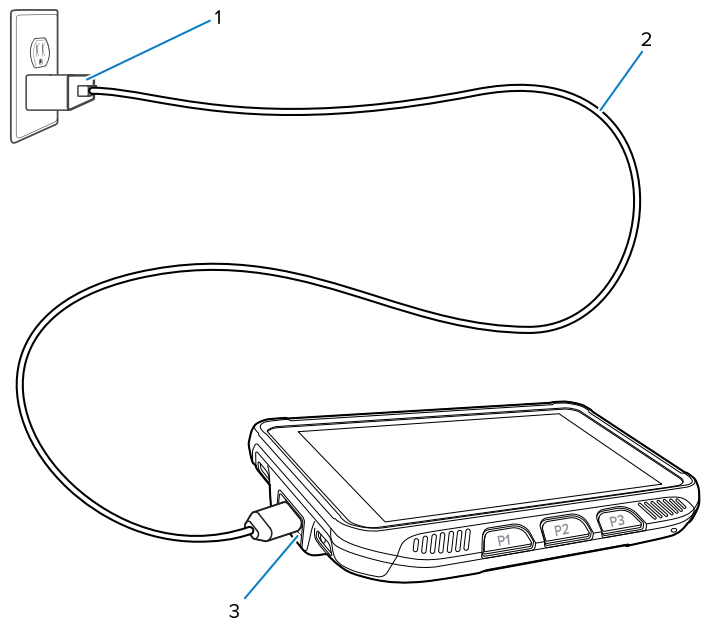
When using the charge cables, the Notification/Charge LED lights amber while charging, and then turns solid green when fully charged.

Figure 25 USB/Charging Cables - WT6400



1	Plug adapter
2	USB/Charge cable
3	Interface connector

Figure 26 USB/Charging Cable - WT5400



1	Plug adapter
2	USB-A to USB-C communications and charge cable
3	Interface connector

Ergonomic Considerations

To avoid or minimize risk of ergonomic injury, follow these recommendations:

- Ensure that users are trained in proper mounting of the device.
- Ensure that the device is not worn near the wrist joint.
- Ensure that the device is mounted so that the display is oriented towards the user.
- Ensure proper use and maintenance of the adjustable strap.
- Match strap selection to user forearm – Use white coded BOA strap for small to medium forearm size, and use black coded BOA strap for medium to large forearm size.
- Maintain and clean wearable components such as straps and soft goods.
- Reduce or eliminate unnecessary repetitive motion and activation.
- Maintain a neutral posture.
- Reduce or eliminate elevated or raised arm and shoulder postures.
- Reduce or eliminate excessive force.
- Keep objects that are used frequently within easy reach.
- Perform tasks at correct heights.
- Reduce or eliminate direct pressure.
- Provide adequate clearance.
- Provide a suitable working environment.

