

WS301

Enterprise Wearable Solution



ZEBRA

Quick Start Guide

2025/08/08

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Model Number

This guide applies to the model number: WS3012

Device Features

The WS301 is a wearable computer that offers flexible hands-free operation for right or left-handed users.

The device is available in the following configuration:

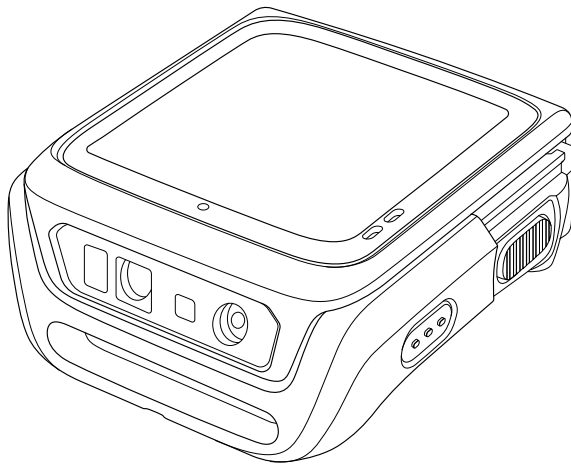
- Camera

Camera Features

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Front View

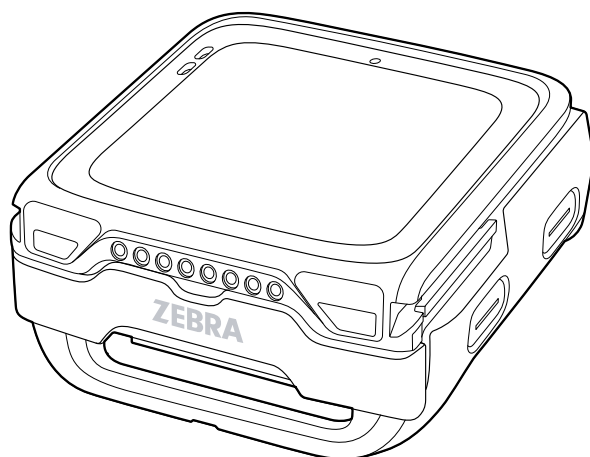
The Camera has a touch panel, button, clip mount, and other features.



PLACEHOLDER

1	Camera	Takes photos and videos (available on configurations with camera only).
2	Display	Displays all information needed to operate the device.
3	Microphone	Use for voice communications or audio recordings.
4	Charging LED	Indicates the battery charge state while charging.
5	Ambient light sensor (under the display)	Determines ambient light for controlling display backlight intensity.
6	NFC antenna (under the display)	Provides communication with other NFC-enabled devices.

7	Speaker	Use for voice communication or audio playback.
8	Left 1 button	User programmable; defaults to Back button.
9	Notification LED	Indicates an application notification is received.
10	Camera flash	Provides illumination for the camera (available on configurations with the camera only).

Rear View

Placeholder

1	Scan/Custom LED	Indicates data capture and custom applications-controlled status.
2	Right 1 button	User programmable; defaults to initiate data capture.
3	Right 2 button	User programmable; defaults to Home button; presses to power on the device.
5	Battery	Standard capacity 800 mAh battery provides power for operating the device.
6	Interface connector	Provides USB host and client communication, and device charging via cables and accessories.

See Also

[Installing the Wrist Mount Assembly](#)

[Removing the Wrist Mount Assembly](#)

Setting Up the Device

To start using the device for the first time:

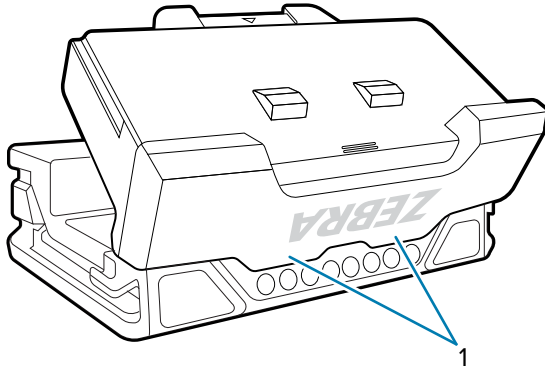
1. Install the battery.

2. Install the wearable assembly.
 - Clip Mount
3. Charge the device using one of the charging accessories.
4. Power on the device.

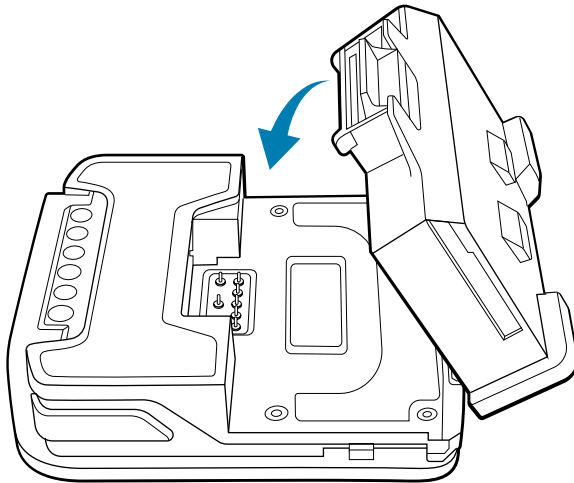
Installing the Battery

Install the 800 mAh battery to the WS301 Camera.

1. Align the battery so that the battery bottom engages the locking slots (1).



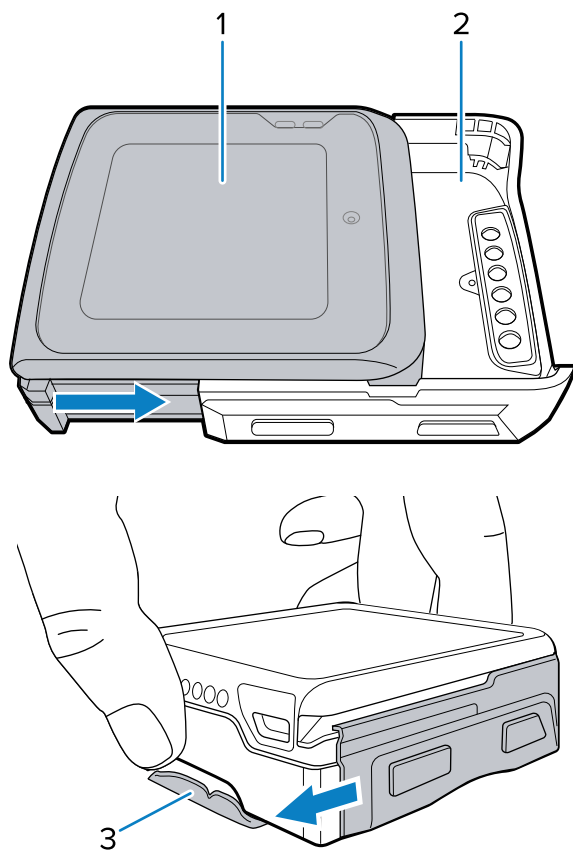
2. Press the battery down into the battery compartment until the battery release latches snap into place.



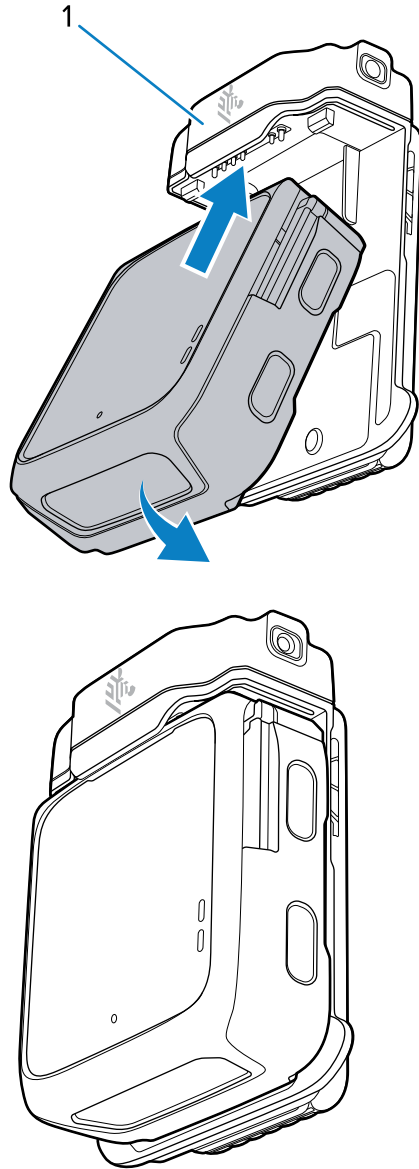
Installing the Device into the Clip Mount

The clip mount lets the operator wear the device on a belt, shirt pocket, or lapel-style. Install the device onto the clip mount after the battery is charged.

1. Slide the device (1) into the shell (2) until the shell release (3) snaps into place.



2. Insert the shell assembly, top first, into the clip mount (1), and then rotate it until it locks in place, sitting flush with the clip mount.



A beep will sound when the device is correctly inserted into the clip mount.



NOTE:

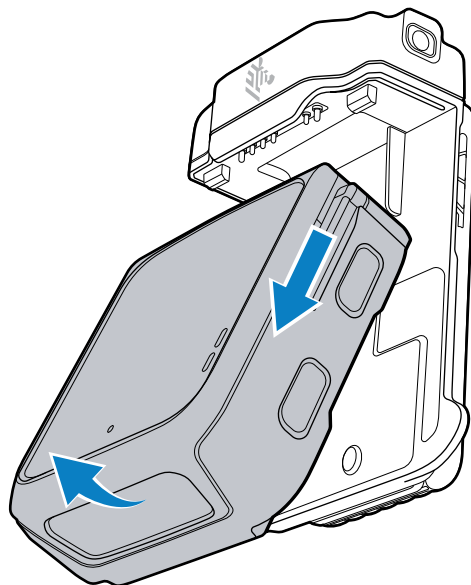
If using a Zebra headset with the clip mount:

1. Use the headset's volume control scroll to adjust it to the maximum level.
2. After installing the device into the clip mount, connect the headset.
3. Adjust the device's volume using a voice command, such as "Set volume to 8."

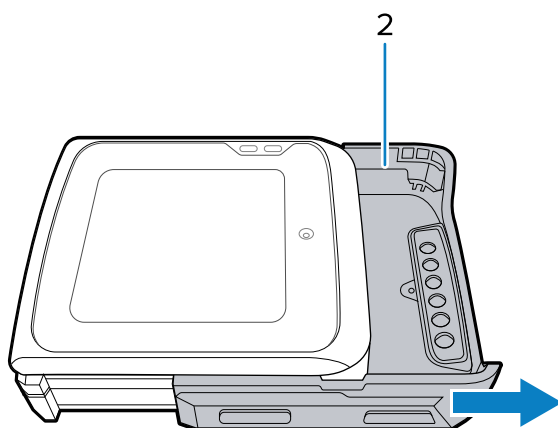
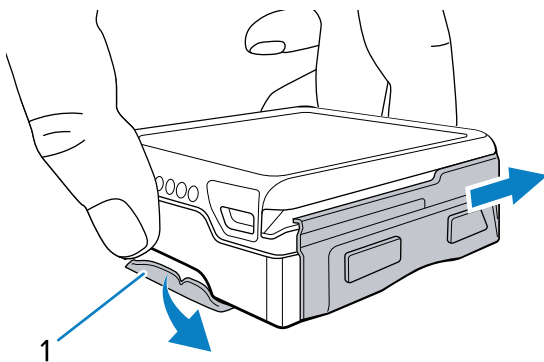
Removing the Device from the Clip Mount

This section describes how to remove the WS301 from the clip mount.

1. Rotate the shell assembly away from the clip mount, and then lift the shell assembly out.



2. Push down the shell latch (1), and then slide the device out of the shell (2).



Wearing the Device

The WS301 can be worn on a belt, apron, or vest.

Figure 1 Device Worn on a Belt

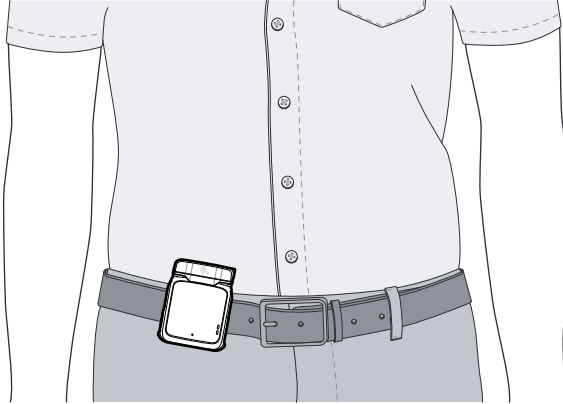


Figure 2 Device Worn on an Apron or Vest

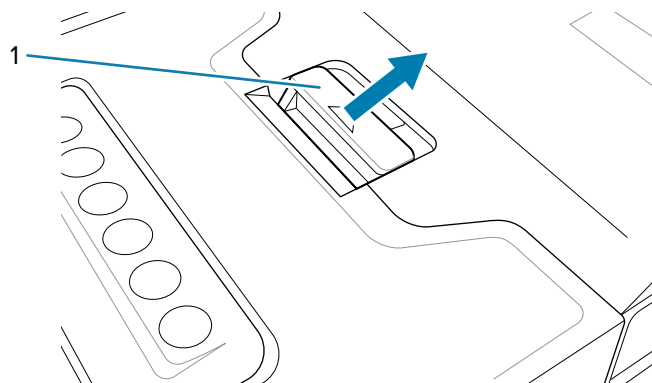


Replacing the Battery

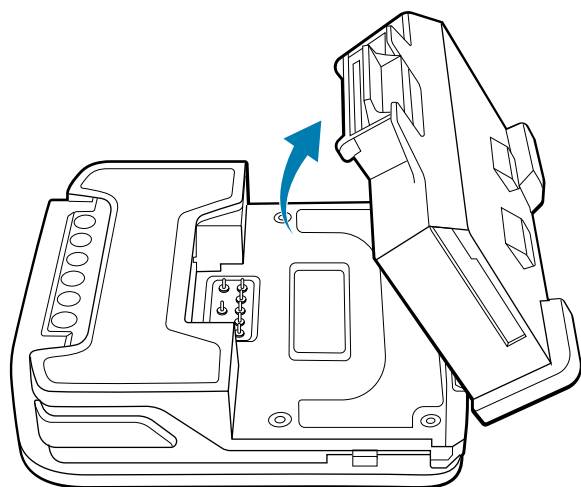
The device supports Hot Swap mode where the user can replace the battery without powering off the device. When the user removes the device from the shell, the display turns off and the device enters a low power state (indicated by a single red flash of the scan/custom LED). Replace the battery within two minutes to preserve memory persistence.

1. Remove the wearable assembly.
2. Rotate the device so that the touch screen is facing downward.

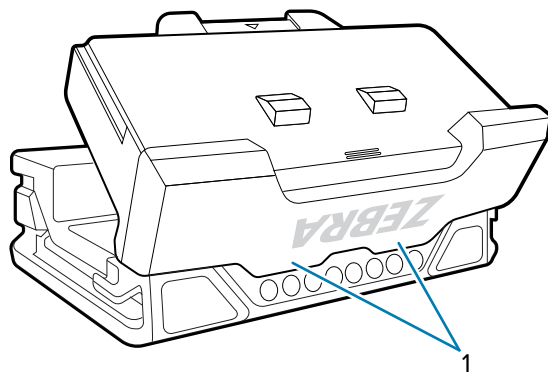
3. Push the battery release latch (1).



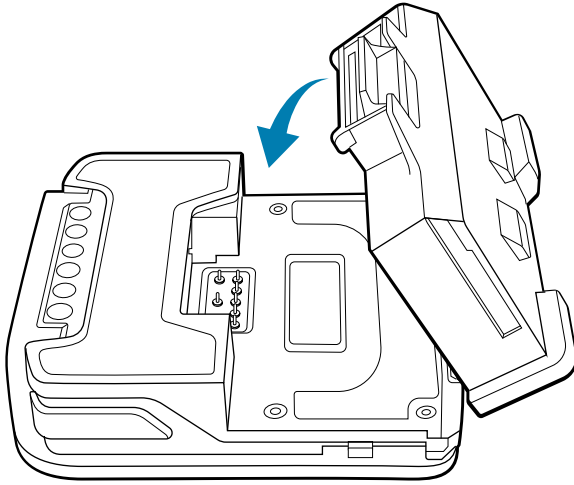
4. Lift the battery from the battery compartment.



5. Align the battery so that the battery bottom engages the locking slots (1).



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



Charging the Device

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

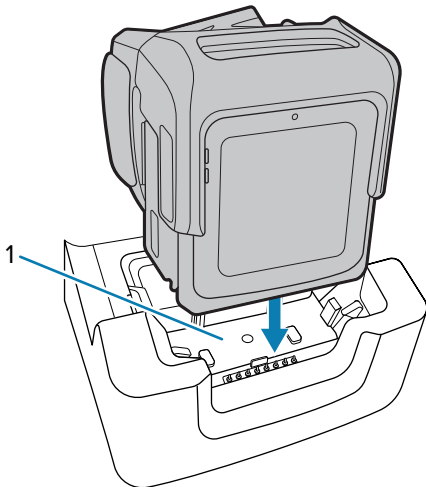
Charging the Main Battery

Charge the battery in a device with one of the charge-only cradles or the USB charge cable.



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

1. Connect the charger to a power source.
2. Insert the device into a cradle slot (1) or attach it to the USB charge cable.

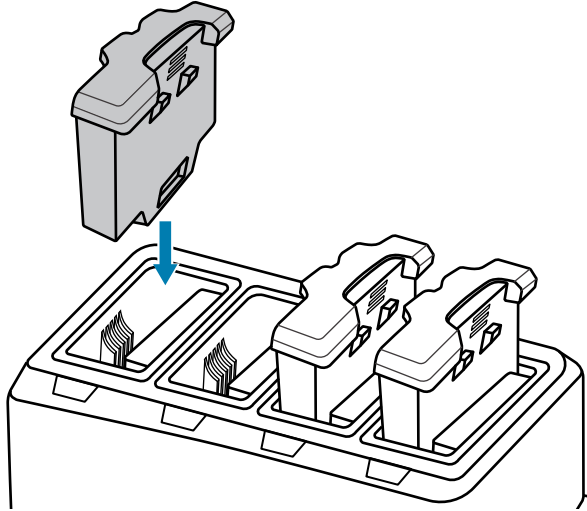


The device turns on and begins charging. The Notification LED on the touch panel shows amber while charging, then turns solid green when fully charged.

Charging the Spare Battery

Charge the spare battery with one of the battery chargers.

1. Connect the charger to a power source.
2. Insert the battery into a battery charging well.



3. Gently press down on the battery to ensure proper contact.

The spare battery charging LED on the battery charger indicates the status of the battery charging.

Charging Indicators

The spare battery charging LED on the cradle cup indicates the status of the spare battery charging.

Table 1 Spare Battery Charging LED Indicators

State	Indication
Off	The battery is not charging. The battery is not inserted correctly in the cradle or connected to a power source. 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: • Temperature is too low or too high. • Charging has gone on too long without completion (typically eight hours).
Solid Red	Unhealthy battery is charging or fully charged.

Charging Temperature

Charge batteries in temperatures from . 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

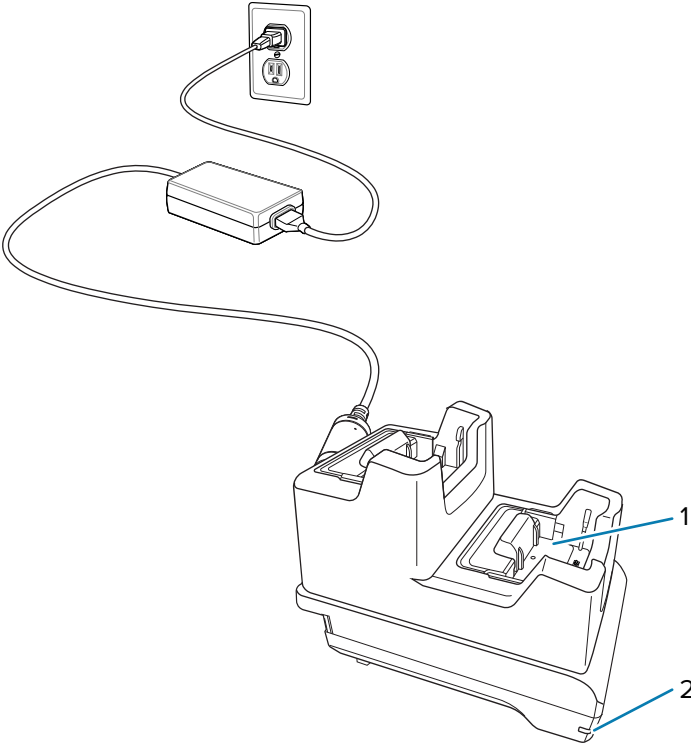
at acceptable temperatures. The device and cradle indicate when charging is disabled due to abnormal temperatures via its LED.

2-Slot Charge Only Cradle

2-Slot Charge Only Cradle:

- Provides 12 VDC (nominal) power for operating the device.
- Charges the device's battery.

Figure 3 2-Slot Charge Only Cradle



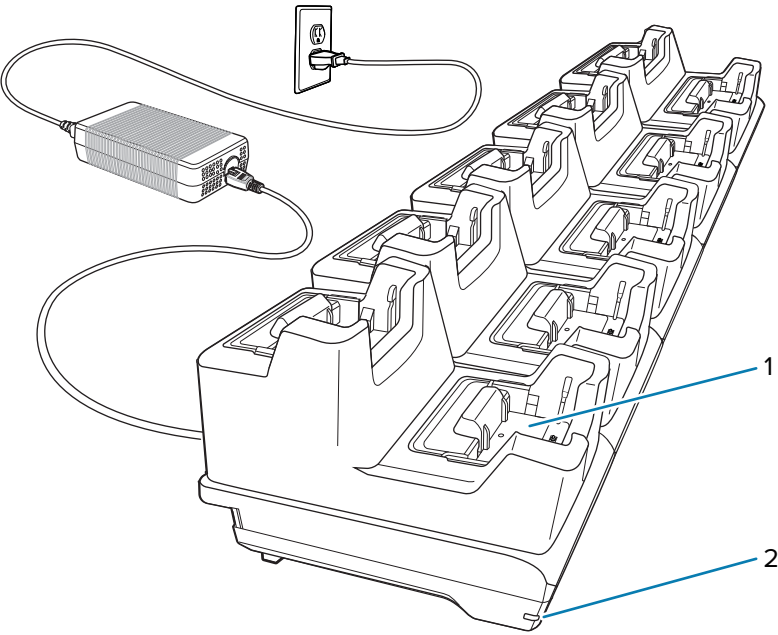
1	Device charging slot
2	Power LED

10-Slot Charge Only Cradle

10-Slot Charge Only Cradle:

- Provides 12 VDC (nominal) power for operating the device.
- Charges the device's battery.

Figure 4 10-Slot Charge Only Cradle



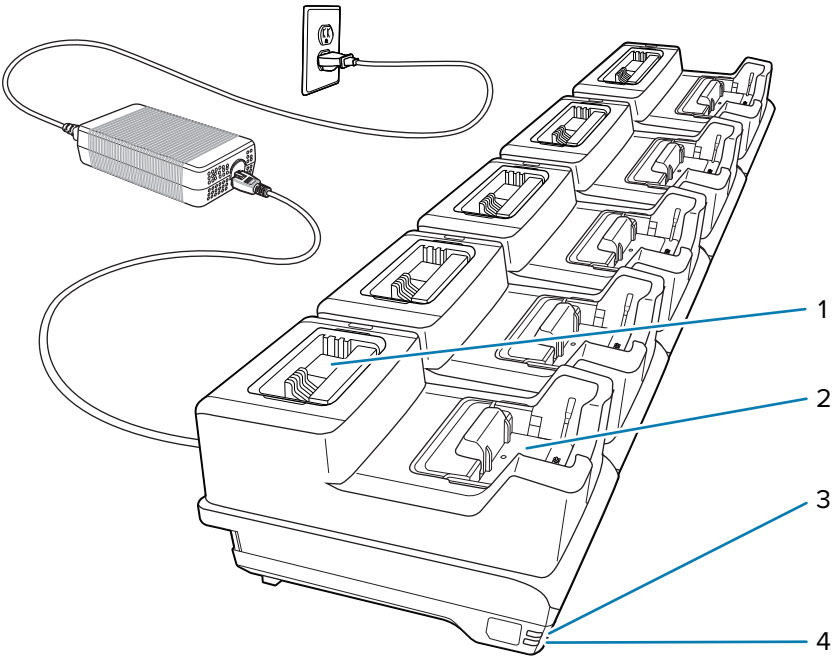
1	Device charging slot
2	Power LED

5-Slot Ethernet Cradle with Battery Charger

5-Slot Ethernet Cradle with Battery Charger:

- Provides 12 VDC (nominal) power for operating the device.
- Connects the device (up to five) to an Ethernet network.
- Simultaneously charges up to five devices and up to five spare batteries.

Figure 5 5-Slot Ethernet Cradle with Battery Charger

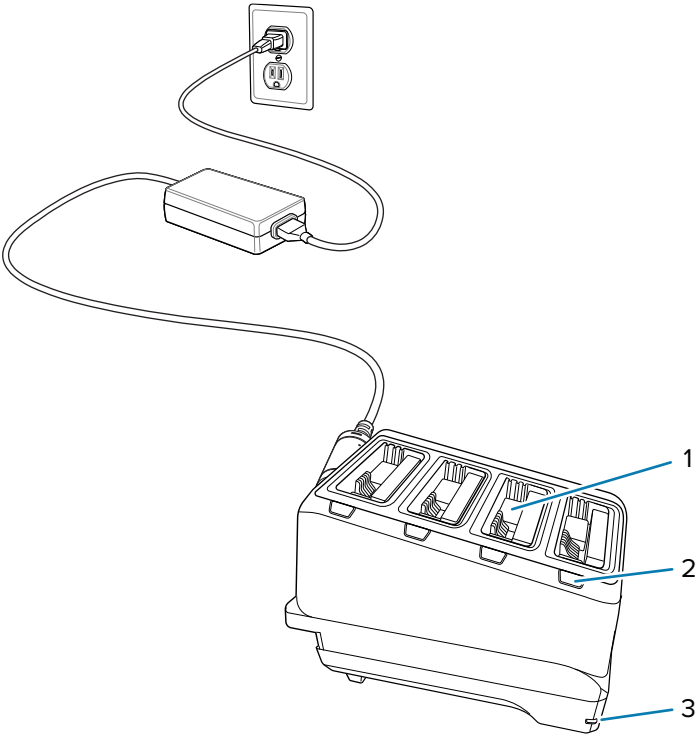


1	Battery slot
2	Device charging slot
3	1000 LED
4	100/100 LED

4-Slot Battery Charger

The 4-Slot Battery Charger charges up to four spare batteries.

Figure 6 4-Slot Battery Charger

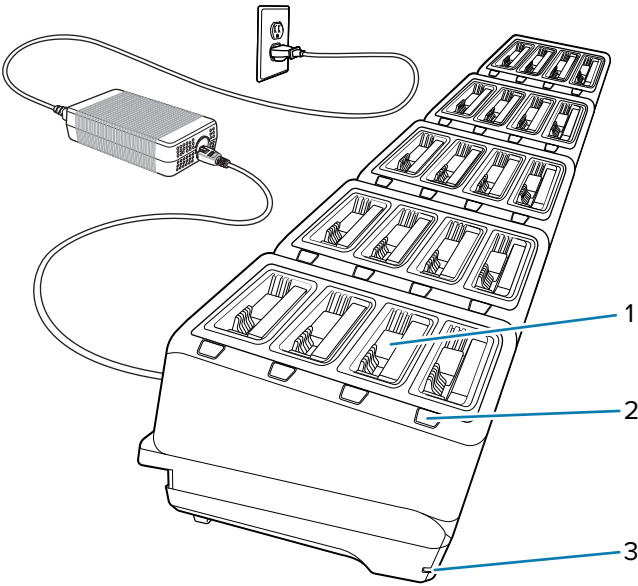


1	Battery slot
2	Battery charging LED
3	Power LED

20-Slot Battery Charger

The 20-Slot Battery Charger charges up to 20 spare batteries.

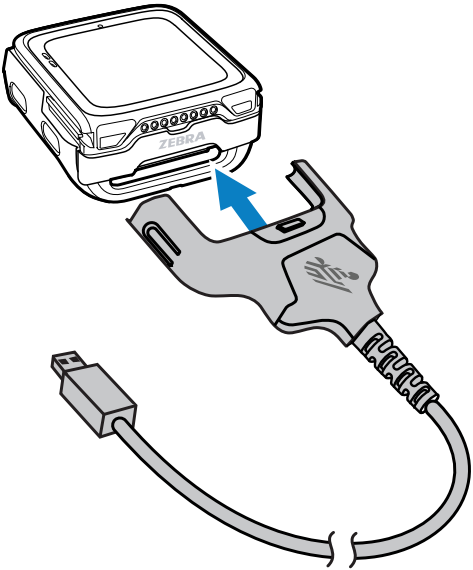
Figure 7 20-Slot Battery Charger



1	Battery slot
2	Battery charging LED
3	Power LED

USB Charge Cable

The USB Charge Cable snaps onto the bottom of the device and is easily removed when not in use. The cable charges the device and allows the device to transfer data to a host computer.



Maintaining the Device with the Screen Protector

A screen protector is applied to the device. Zebra recommends using a screen protector to minimize wear and tear. Screen protectors enhance the usability and durability of touchscreen displays. Benefits include:

- Protection from scratches and gouges.
- Durable touch surface with tactile feel.
- Abrasion and chemical resistance.
- Glare reduction.
- Keeping the device's screen looking new.
- Quick and easy installation.

Ergonomic Recommendations

To avoid or minimize risk of ergonomic injury, follow the ergonomic recommendations.

- Ensure users are trained in proper and secure mounting of the on the fingers.
- Ensure that the finger comfort pad is in place and the strap buckle is secured properly on the fingers with the .
- Ensure that the device is mounted so that the display is oriented towards the user.
- 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.
- Improve working procedures using the device.

