

# Zebra Print



**ZEBRA**

## User Guide

2025/01/20

ZEBRA and the stylized Zebra head are trademarks of Zebra Technologies Corporation, registered in many jurisdictions worldwide. All other trademarks are the property of their respective owners. ©2024 Zebra Technologies Corporation and/or its affiliates. All rights reserved.

Information in this document is subject to change without notice. The software described in this document is furnished under a license agreement or nondisclosure agreement. The software may be used or copied only in accordance with the terms of those agreements.

For further information regarding legal and proprietary statements, please go to:

SOFTWARE: [zebra.com/informationpolicy](https://zebra.com/informationpolicy).

COPYRIGHTS: [zebra.com/copyright](https://zebra.com/copyright).

PATENTS: [ip.zebra.com](https://ip.zebra.com).

WARRANTY: [zebra.com/warranty](https://zebra.com/warranty).

END USER LICENSE AGREEMENT: [zebra.com/eula](https://zebra.com/eula).

## Terms of Use

### Proprietary Statement

This manual contains proprietary information of Zebra Technologies Corporation and its subsidiaries ("Zebra Technologies"). It is intended solely for the information and use of parties operating and maintaining the equipment described herein. Such proprietary information may not be used, reproduced, or disclosed to any other parties for any other purpose without the express, written permission of Zebra Technologies.

### Product Improvements

Continuous improvement of products is a policy of Zebra Technologies. All specifications and designs are subject to change without notice.

### Liability Disclaimer

Zebra Technologies takes steps to ensure that its published Engineering specifications and manuals are correct; however, errors do occur. Zebra Technologies reserves the right to correct any such errors and disclaims liability resulting therefrom.

### Limitation of Liability

In no event shall Zebra Technologies or anyone else involved in the creation, production, or delivery of the accompanying product (including hardware and software) be liable for any damages whatsoever (including, without limitation, consequential damages including loss of business profits, business interruption, or loss of business information) arising out of the use of, the results of use of, or inability to use such product, even if Zebra Technologies has been advised of the possibility of such damages. Some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

## Introduction

Zebra Print simplifies your Android™ printing process. Designed with an intuitive interface that integrates into your workflows seamlessly, Zebra Print combined with the Android print service framework allows you to print PDF, images, and other documents directly from your applications.

Download the Zebra Print app to your Android device and add your printer via USB, network, Bluetooth, or NFC. Open your file and print.

## System Requirements

Zebra Print for Android requires the following:

- Minimum Link-OS Version: 5.2
- Minimum Android Version: 10

## Communications

Zebra Print supports the following communication protocols:

- Network discovery requires UDP port 4201
- Network printing port 9100
- USB
- Bluetooth Classic



**NOTE:** Bluetooth LE is not supported.

## Supported Printers

Zebra Print supports the following printers:

- ZQ300 series | ZQ300 Plus series
- ZQ500 series
- ZQ600 series | ZQ600 Plus series
- ZD220/230/888
- ZD400 series
- ZD500 series
- ZD600 series
- ZT100 series
- ZT200 series
- ZT400 series
- ZT500 series
- ZT600 series
- ZR300 series | ZR300 Plus series

- ZR600 series | ZR600 Plus series

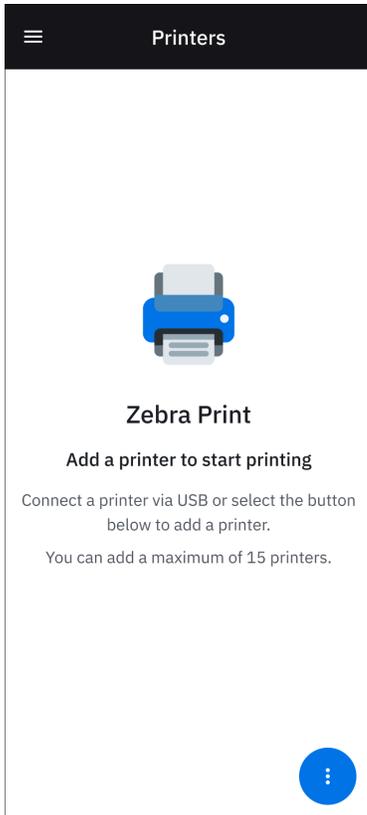


**NOTE:** The following printers are not supported: ZQ200 series, ZD510, ZE500 series, ZD888TA/DA, ZD230TA/DA, ZSB series, and Legacy ZebraLink printers.

## Home Screen

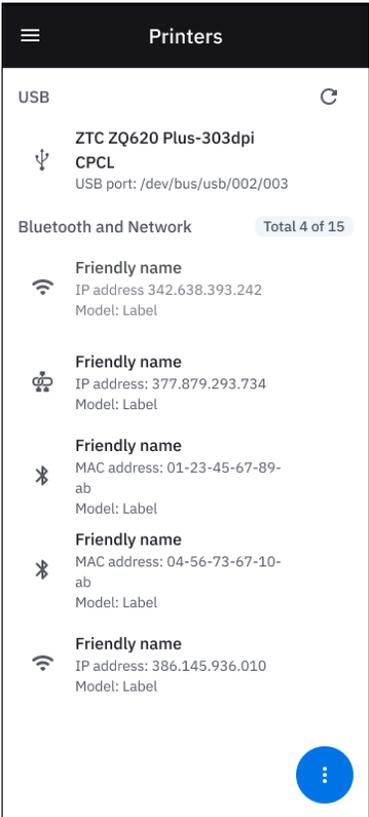
The first time you open the Zebra Print app, the home screen displays the option to add a printer.

**Figure 1** Zebra Print Home Screen



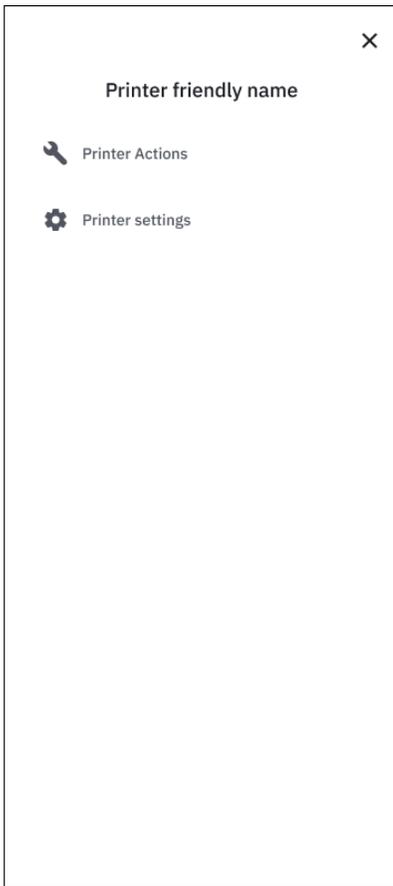
After adding printers, the home screen displays a list of these printers. The icon to the left of the printer indicates the connection type for that printer (USB, Bluetooth, wired, or wireless network).

Figure 2 Zebra Print Home Screen With Added Printers



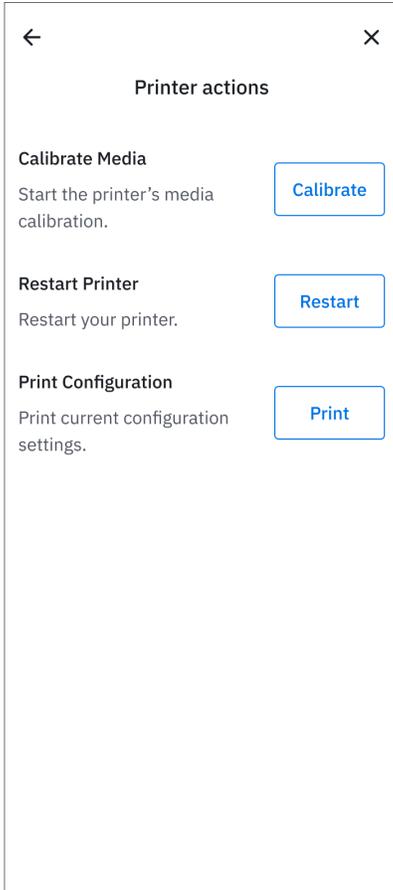
## Managing Printers

Tap a printer on the Home screen to access **Printer Actions** and **Printer settings**.

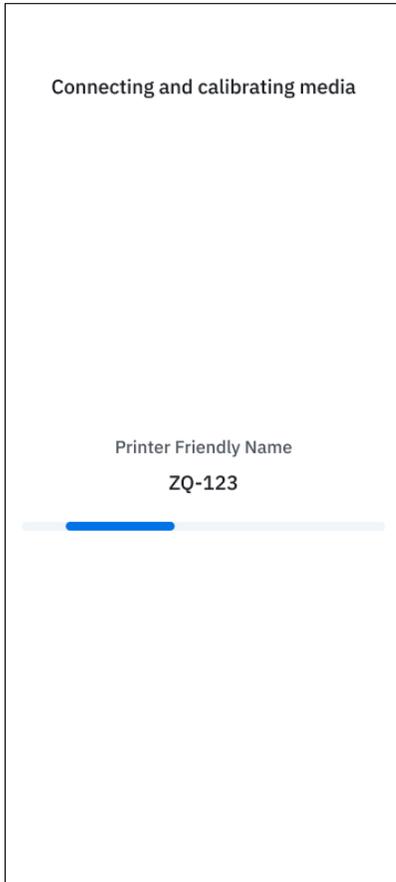


## Printer Actions

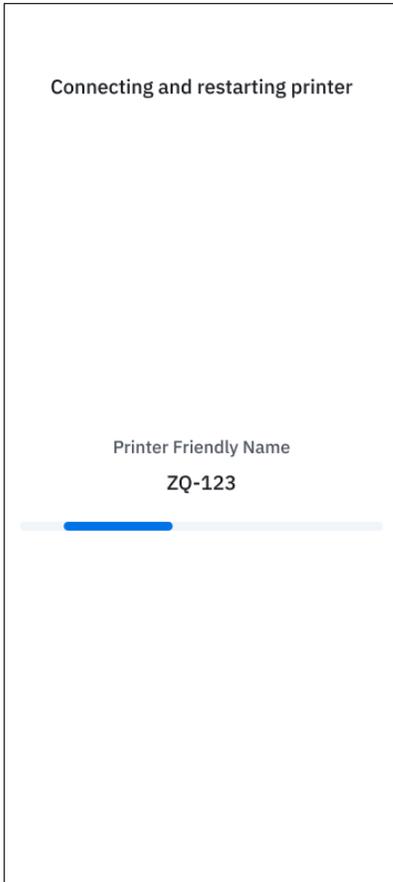
Select **Printer actions** to calibrate media, restart the printer, or print the configuration settings for the printer.



Tap **Calibrate** to calibrate the media in the printer.



Tap **Restart** to restart the printer.



Tap **Print** to print the current configuration settings for the printer.

Connecting and printing configuration

Printer Friendly Name

ZQ-123



## Printer Settings

Select **Printer Settings** to update settings such as media orientation, print speed, and darkness level for a selected printer.

Scroll to review and update all printer settings.

1. Under **Media** tap an option from the **Type** drop-down menu:



**NOTE:** Options available vary depending on the printer used.

- **Continuous** - Lengths of tag rolls.
- **Mark** - Clear pre-cut shaped labels with marks on the backing paper.
- **Gap/Notch** - Media includes a separation (notch) where one label / format ends and the next begins.
- **Auto Select** - Allow the printer to select the media type.

Printer settings

ZD421

**Media**

Type

Continuous

**Media Handling**

Fit To Page  
Scale document to the printer's media size setting.

Variable Length  
Enable printing of different length documents

**Rotation**

0°

**Orientation**

Save

2. Under **Media Handling** select one of the following options:

- Select **Fit to Page** to scale the document to accommodate the media size.
- Select **Variable Length** to print different length documents. This option is only available when the **Continuous** media type is selected.

Optionally change the **Print Preview Length** which specifies the length used in the print preview. Set a value just greater than your maximum length document to optimize the print preview. This does not affect printed output.

**Media handling**

Fit to page  
Scale document to the printer's media size setting.  
Note: Print preview will not reflect this setting

Variable Length  
Enable printing of different length documents.

**Print Preview Length**  
Acceptable Range (in) 10.0 to 39.0

39 in

Length used in the print preview. This does not affect the printed output.



**NOTE:** See [Printing a PDF Document](#) and [Printing Browser Content](#) for information on the type and specifications of documents that can use the **Variable Length** option.

3. Select a **Rotation** value to rotate the label before printing. The **Preview** updates to reflect the selection.

Printer settings

Rotation

90°

Orientation

Normal

Invert

Preview (Orientation and Rotation)

Media Size

Width

Acceptable Range (in) 0.01 to 4.27

Save



**NOTE:** The printed label may be incomplete if you set **Rotation** to 90 or 270 and select **Fit to Page**.

4. Under **Orientation**, select **Inverted** to flip the image before printing.

Printer settings

Rotation

0°

Orientation

Normal

Invert

Preview (Orientation and Rotation)

Media Size

Width

Acceptable Range (in) 0.01 to 4.27

4.27 in

Save

5. Under **Media Size** enter the **Width** and **Length** of the labels within the allowed range.

Printer settings

Media Size

Width

Acceptable Range (in) 0.01 to 4.27

4.27 in

Length

Acceptable Range (in) 0.01 to 106.67

0.34 in

Print

Speed

2 4

Darkness

Save

6. Use the sliders to update the print **Speed** and **Darkness** levels. The **Preview** field reflects the **Darkness** level selected.

The screenshot displays a settings panel for printing. It features two sliders: 'Speed' with a range from 2 to 4 and a selected value of 4; and 'Darkness' with a range from 0 to 30 and a selected value of 30. Below the sliders is a 'Preview (Darkness)' field showing the text 'A4e'. At the bottom are two blue buttons: 'Print Test Page' and 'Save'.

Print

Speed

2 4 4

Darkness

0 30 30

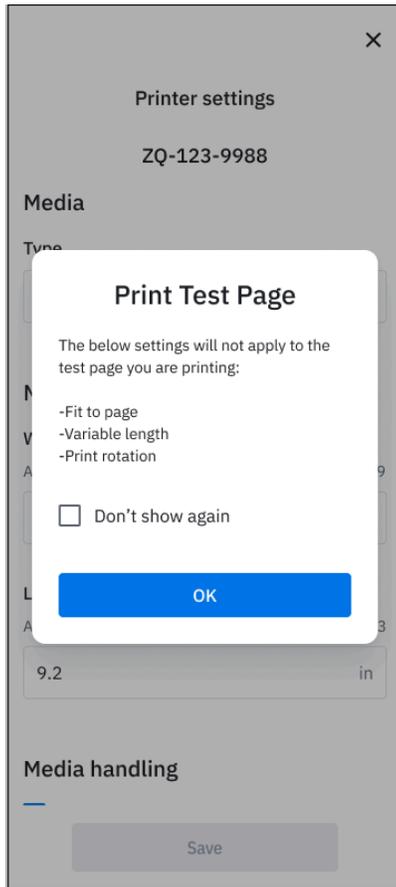
Preview (Darkness)

A4e

Print Test Page

Save

7. Tap **Print Test Page** to print a test label using the currently selected printer settings. A dialog indicates settings that don't apply to the test page.



8. Tap **OK** to dismiss the **Print Test Page** dialog.
9. Tap **Save** to save the adjusted settings.

## Printing

Zebra Print supports printing browser content, and most common file types, such as PDFs, Word documents, and various image files.

Printers added using Zebra Print are available for selection in the print dialog when printing your documents.

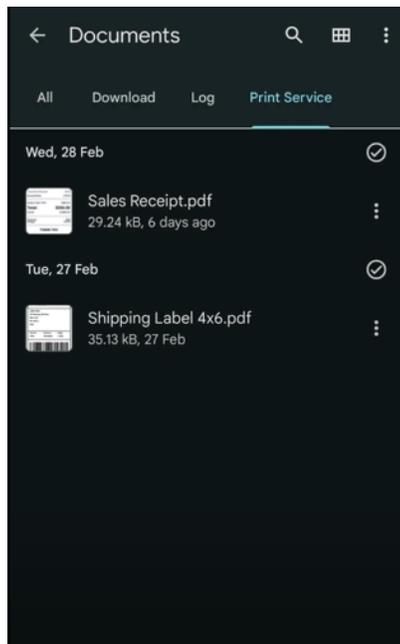


**NOTE:** If attempting to print while the **Printer settings** screen is open and the Zebra Print application is running in the background, the Bluetooth connection remains open, causing the print job to fail. To successfully print the document, save/update and exit the **Printer settings** page.

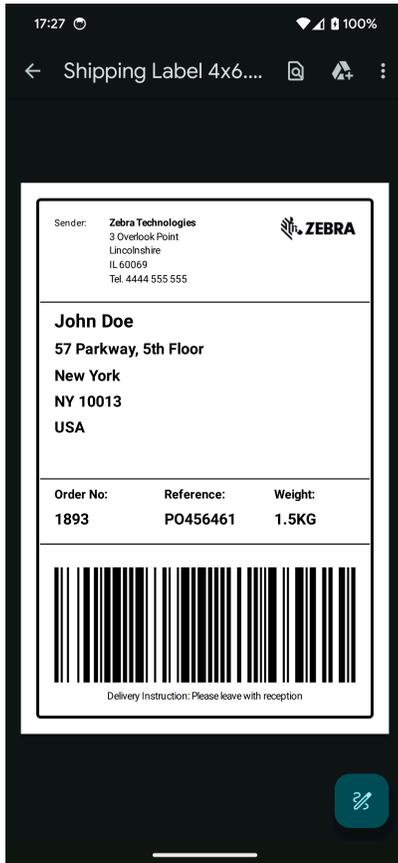
### Printing a PDF Document

Print a PDF document from your device using the Android print service.

1. Go to **Documents**.



2. Open the document in your preferred PDF application.



3. Tap **:** > **Print**.



4. Tap the printer from the list of available printers. Printers with the Zebra Print icon are those added using Zebra Print.



5. Tap  to print.

A notification indicates whether the document was successfully sent to the printer or not.



If the printer is offline, a message displays indicating this. Power on the printer and re-attempt printing.

## Variable Length PDF Documents

PDF documents must meet the following requirements for variable length printing.

- The PDF is printed in portrait orientation.
- The PDF document is created with a width that does not exceed the print width of the target printer.
- PDF document lengths can vary but should not exceed the printer's maximum print length.

Refer to the printer specifications for maximum print width and length.



**NOTE:** Variable Length printing does not apply to printing image files.

### Printer Settings for Variable Length Printing

Set [Printer Settings](#) as follows for variable length printing.

- Set **Media Type** to **Continuous**.
- Under **Media Handling**, select the **Variable Length** checkbox.
- Under **Media Size**, set **Width** to the width of the document.



**NOTE:** The **Fit to page** option cannot be used when **Variable Length** is selected.

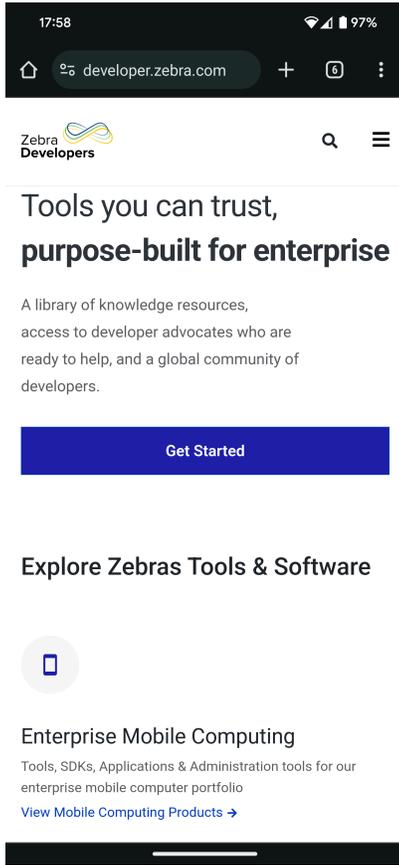
## Printing Browser Content

Print browser content from your device using the Android print service.

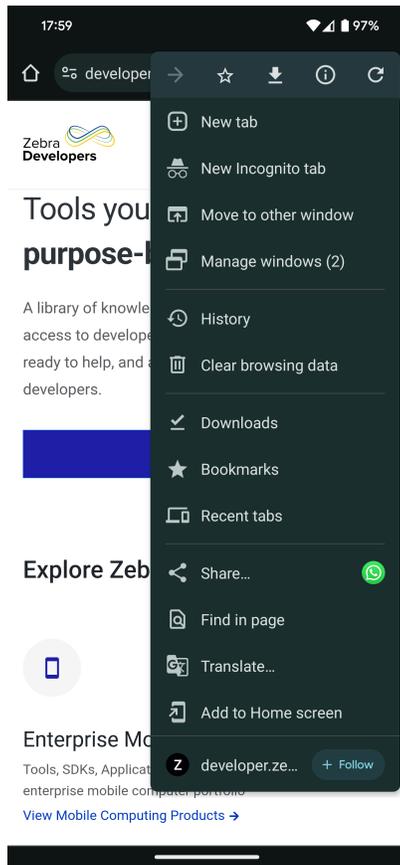


**NOTE:** Because web page HTML and elements can affect output, the result of web page printing cannot be guaranteed.

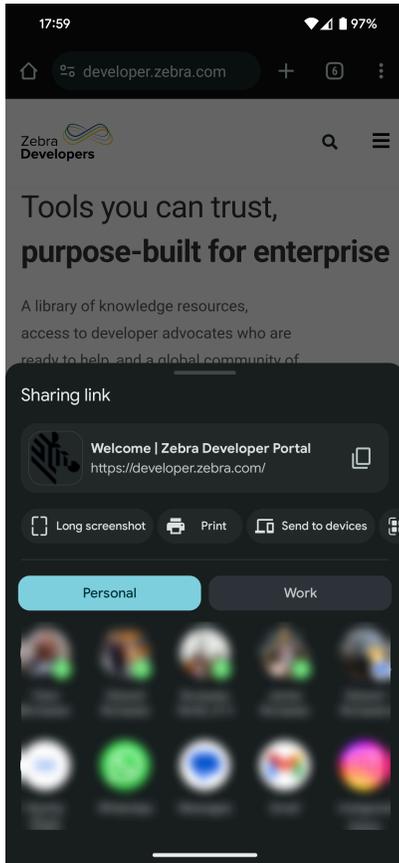
1. Open the browser app on your Android device, and open the page to print.



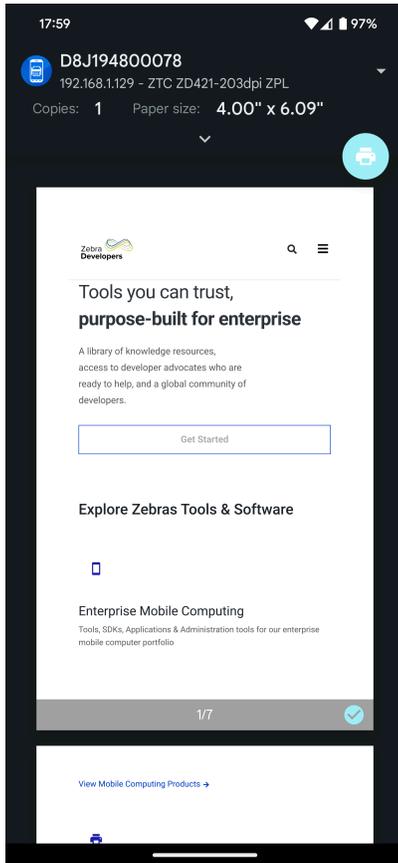
2. Tap **⋮** > **Share**.



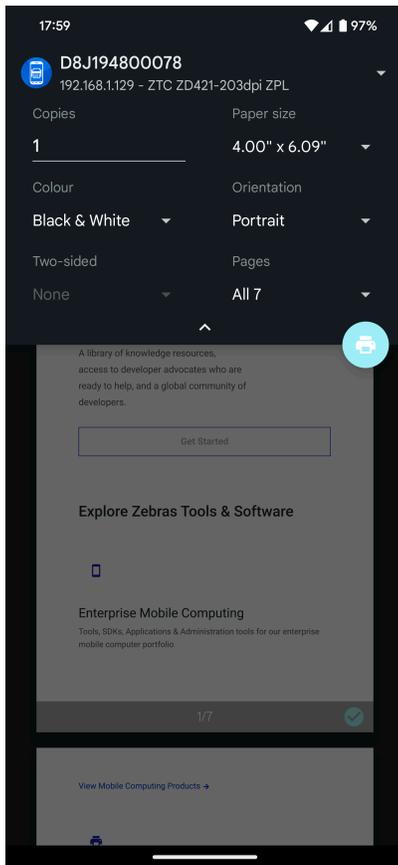
3. Tap **Print**.



4. Select a printer from the list.



- To change any print settings, tap the down arrow below the selected printer.



- Tap .

A notification indicates whether the document was successfully sent to the printer or not.

If the printer is offline, a message displays indicating this. Power on the printer and re-attempt printing.

## Variable Length Browser Content

Web browser content that includes different lengths, such as a formatted sales receipt, must meet the following requirements for variable length printing.

- The web page content is printed in portrait orientation.
- The content is created with a width that does not exceed the print width of the target printer.
- The web page lengths can vary but should not exceed the printer's maximum print length.



**NOTE:** Variable Length printing does not apply to printing image files.



**NOTE:** The Firefox browser does not support Variable Length printing.

### Printer Settings for Variable Length Printing

Set [Printer Settings](#) as follows for variable length printing.

- Set **Media Type** to **Continuous**.

- Under **Media Handling**, select the **Variable Length** checkbox.
- Under **Media Size**, set **Width** to the width of the document.

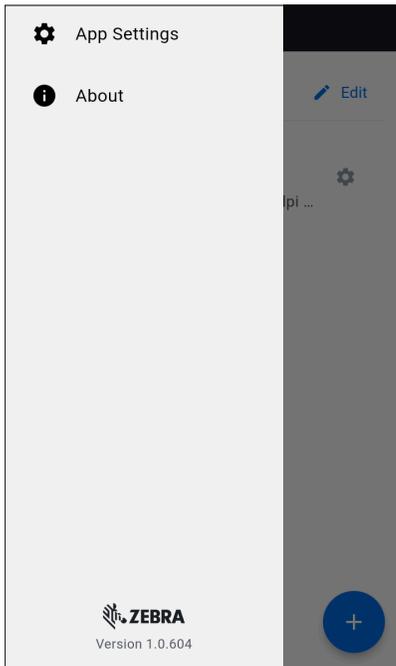


**NOTE:** The **Fit to page** option cannot be used when **Variable Length** is selected.

## Main Menu

Use the  menu at the top left corner of the Zebra Print app to access **App Settings** and the **About** screen.

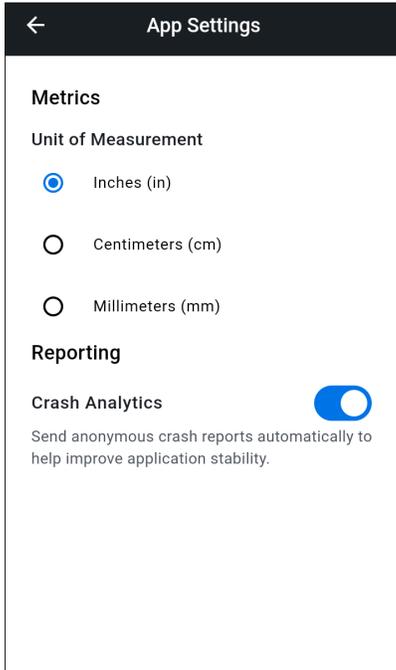
**Figure 3** Zebra Print Main Menu



## App Settings

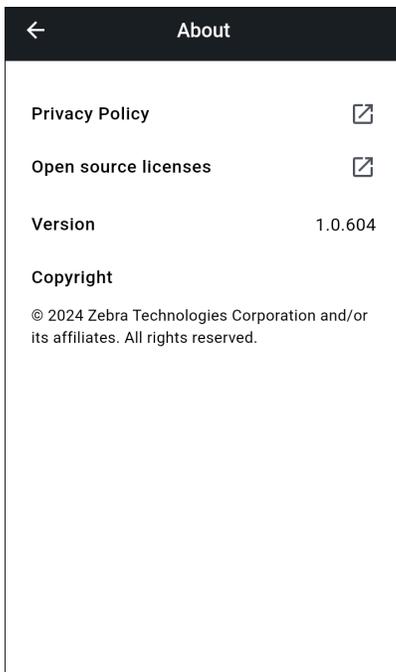
Tap  > **App Settings** to view or change settings.

On the **App Settings** screen, tap to select your preferred unit of measurement, and whether to send crash reports to improve app performance.



## About

Tap  > **About** to view information about the Zebra Print app software, such as version number and open source licenses.



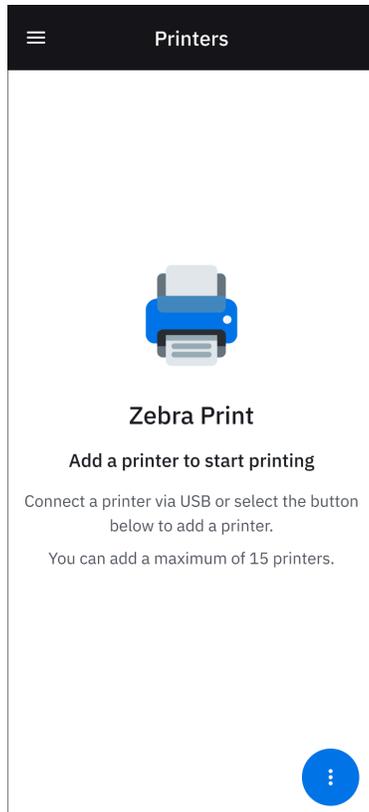
## Adding a Printer

Add a printer to Zebra Print via Wi-Fi or Ethernet network, USB, Bluetooth, or NFC pairing. All printers added are available for selection by the print service framework when printing your documents.

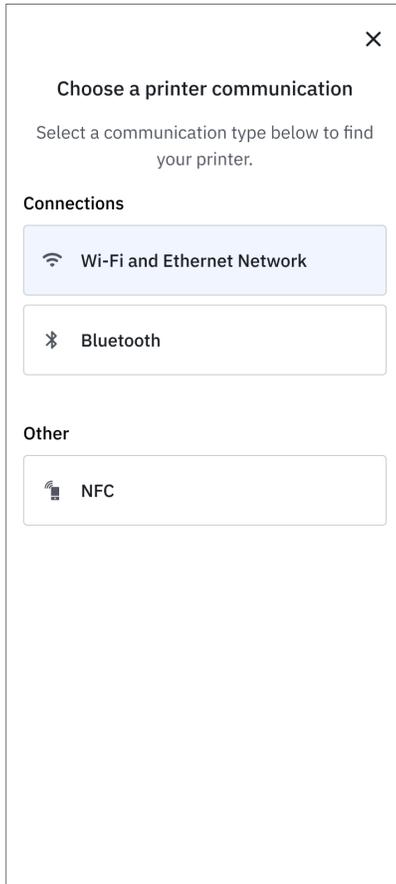
### Adding a Printer via Network

This procedure describes adding a network printer to the Zebra Print app via Wi-Fi or Ethernet.

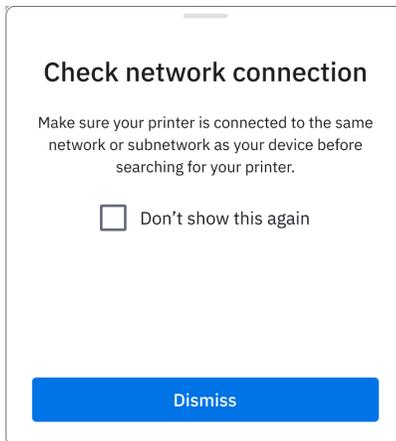
1. Open the Zebra Print app on your Android device, and tap  to find a printer.



2. Tap **Wi-Fi and Ethernet Network**.

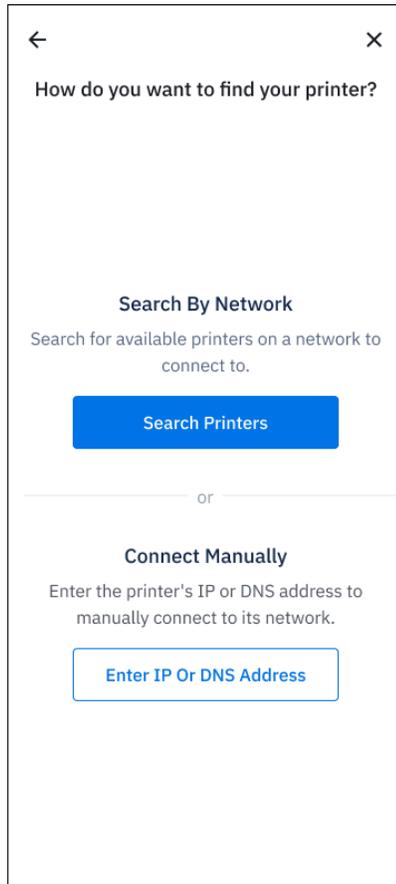


A dialog box asks you to ensure your device and printer are on the same network. After verifying this, tap **Dismiss**.

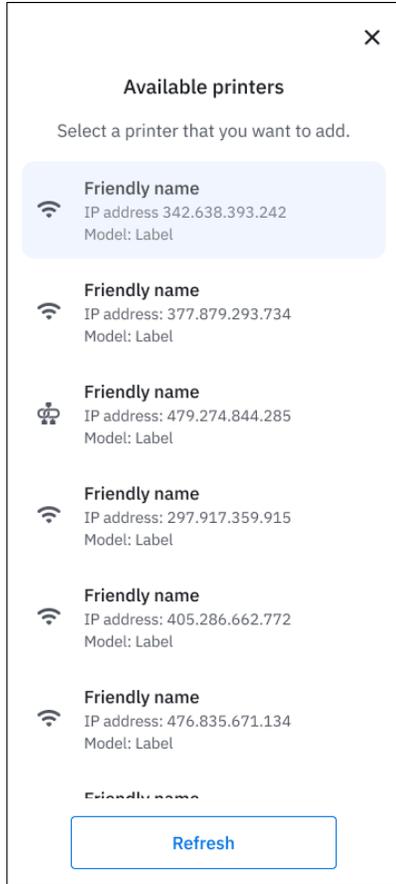


3. To search for the printer:

- Tap **Search Printers**.



The app searches for printers, and then displays a list of available printers. Tap the printer to continue.



**NOTE:** If the **No printers found** screen displays, tap **Search Again** to retry the search.

- Alternatively, tap **Enter IP or DNS Address**, enter the IP or DNS address, and tap **Connect printer**.

← ×

**Connect Manually**

Enter your printer's IP or DNS address to manually connect to its network.

Enter IP or DNS address

Connect Printer

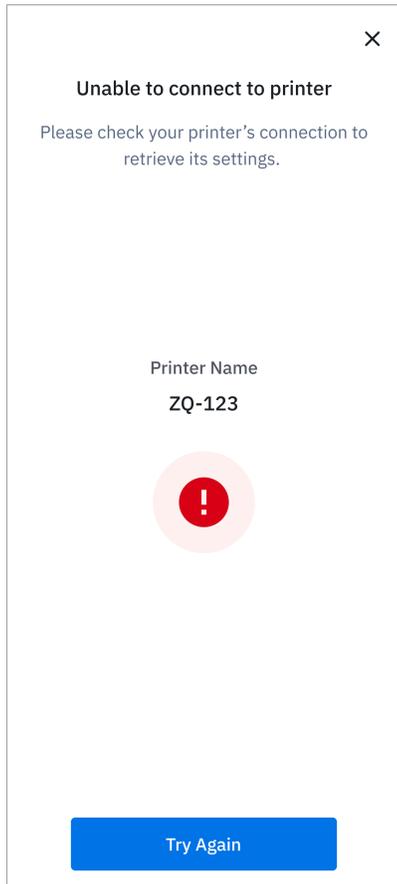
4. Zebra Print connects to the printer and retrieves printer settings. See [Printer Settings](#). Review the printer settings and tap **Finish**.

The screenshot shows a dialog box titled "Review printer settings" with a close button (X) in the top right corner. The text inside reads: "Please review and update your printer settings before we finish adding your printer." Below this is the printer ID "XXZUJ232202723". The settings are organized into sections: "Media" with a "Type" dropdown menu set to "Continuous"; "Media Handling" with a checked "Fit To Page" option (described as "Scale document to the printer's media size setting.") and an unchecked "Variable Length" option (described as "Enable printing of different length documents"); and "Rotation" with a dropdown menu set to "0°". A blue "Finish" button is at the bottom.

If the **Printer settings invalid** screen displays, note the invalid setting(s) and tap **Exit**. Use another application to change the setting(s) and add the printer again.

The screenshot shows a dialog box titled "Printer settings invalid" with a close button (X) in the top right corner. The text inside reads: "Reconfigure the printer to the acceptable value(s) to be able to print to printer." The settings are organized into sections: "Emulation" with a status of "Valid" (green checkmark), setting name "apl.enable", current value "none", and acceptable values "none, pdf"; and "Command Language" with a status of "Invalid" (red dot), setting name "device.languages", current value "epi", and acceptable values "epi\_zpl, hybrid\_xml\_zpl, zpl". A blue "Exit" button is at the bottom.

If the connection is lost or the printer is not found, a screen similar to the following displays. Tap **Try again**.

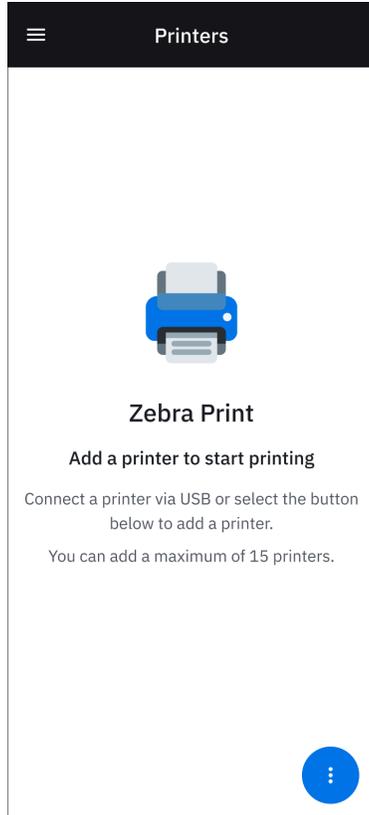


When successful, Zebra Print adds the selected printer to the **Printers** screen.

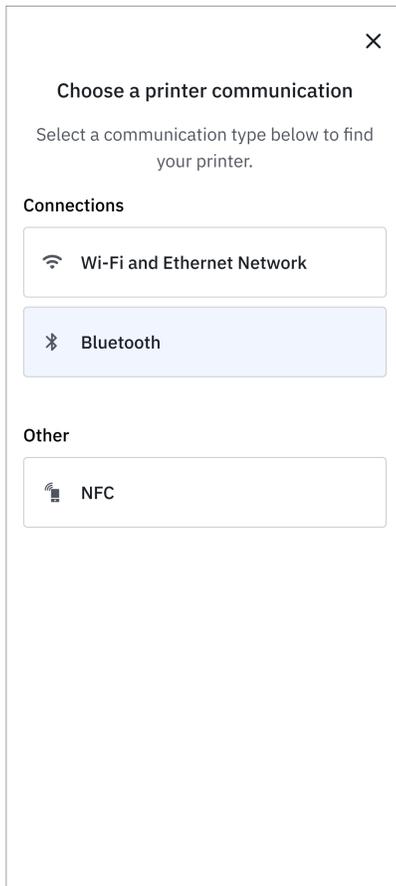
## Adding a Printer via Bluetooth

This procedure describes adding a printer to the Zebra Print app using a Bluetooth connection.

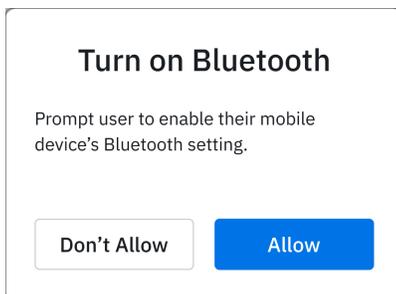
1. Open the Zebra Print app on your Android device, and tap  to find a printer.



## 2. Tap **Bluetooth**.



If Bluetooth is disabled on the Android device, a dialog box alerts you. Tap **Allow**.



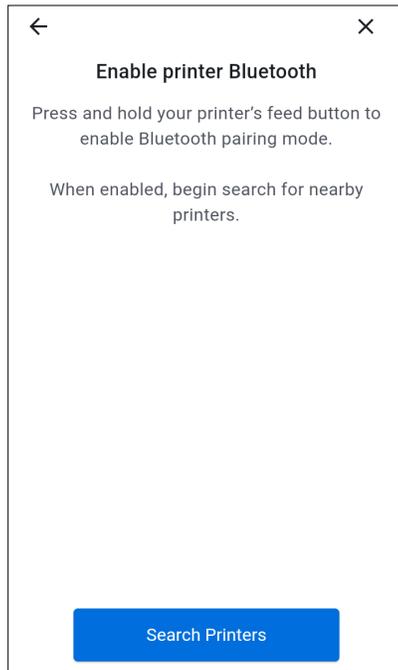
3. Enable Bluetooth limited pairing mode on the printer by holding the FEED button for 5 seconds, and then tap **Search Printers** to find the printer.



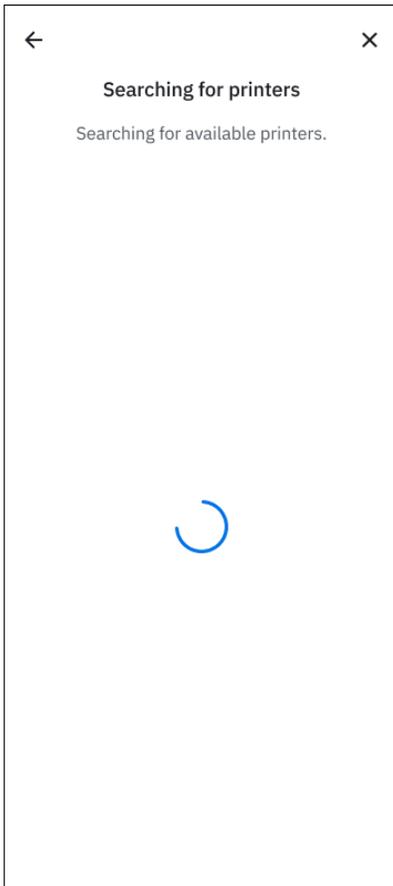
**NOTE:** Enabling limited pairing mode enables discovery and pairing for 2 minutes. This allows the printer to operate safely with discoverable mode disabled until a user with physical access to the printer activates it. Upon entering Bluetooth Pairing Mode, the printer provides feedback that the printer is in this mode using one of two methods:

- On printers with a Bluetooth screen icon or Bluetooth LED, the printer flashes the Bluetooth icon or LED on and off every second while in pairing mode.

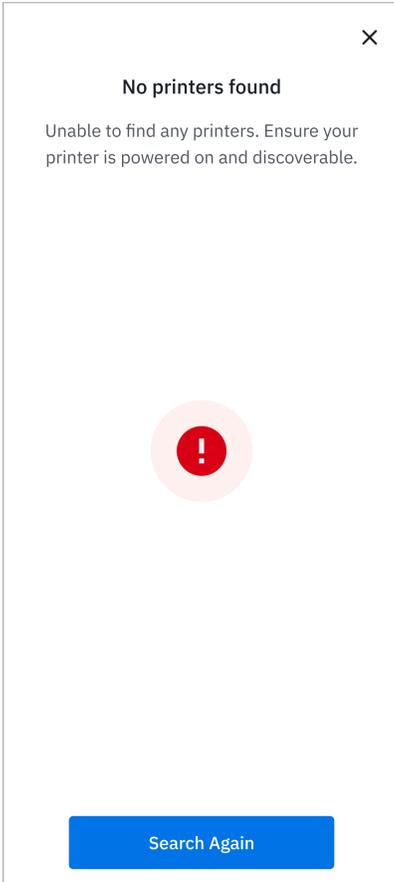
- On printers without a Bluetooth screen icon or Bluetooth LED, the printer flashes the Data icon or LED on and off every second while in pairing mode.



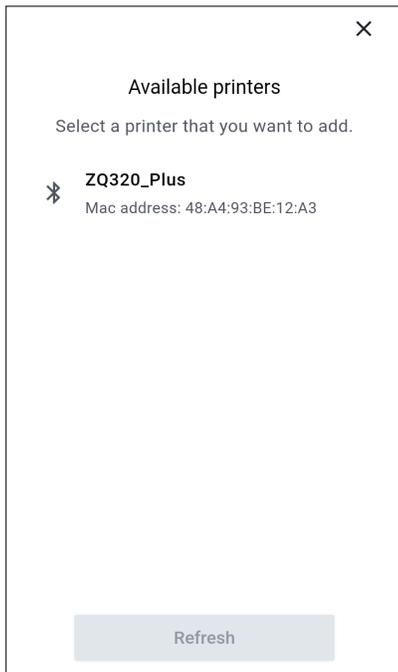
A **Searching** screen displays while the app searches for printers.



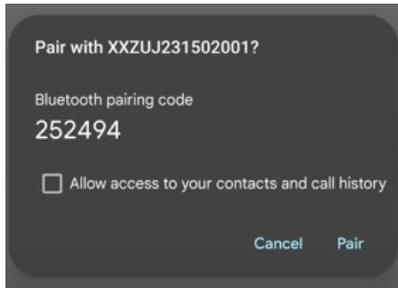
If no printers are found, the following screen displays. Tap **Search Again** to retry the search.



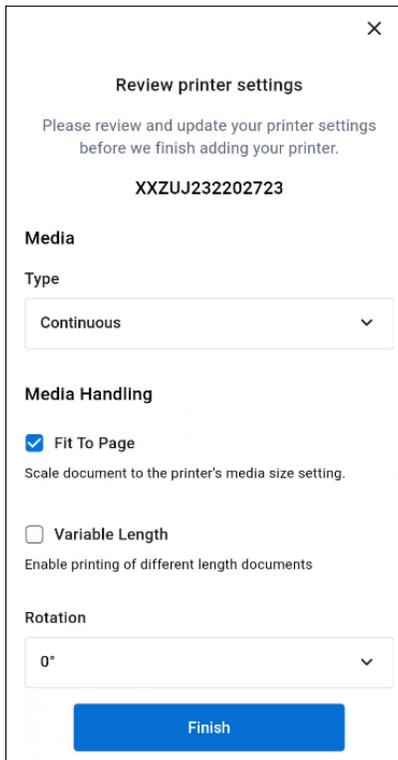
4. When successful, the app displays a list of available printers. Tap the printer to connect to.



5. Zebra Print connects to the printer and retrieves printer settings. On the Pair dialog box, tap **Pair**.



6. Review and modify any settings and tap **Finish**. See [Printer Settings](#).

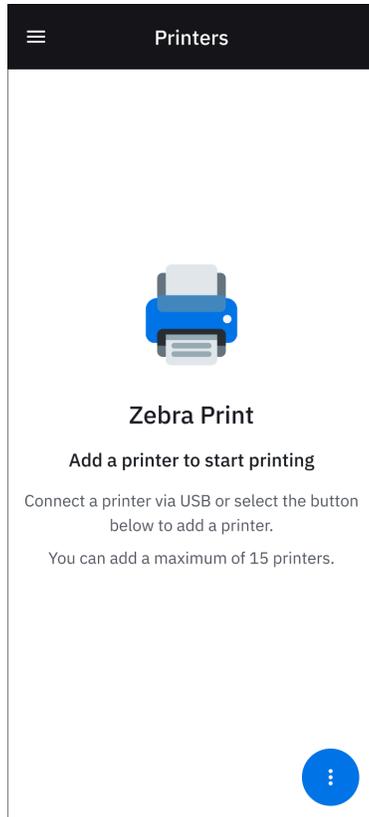


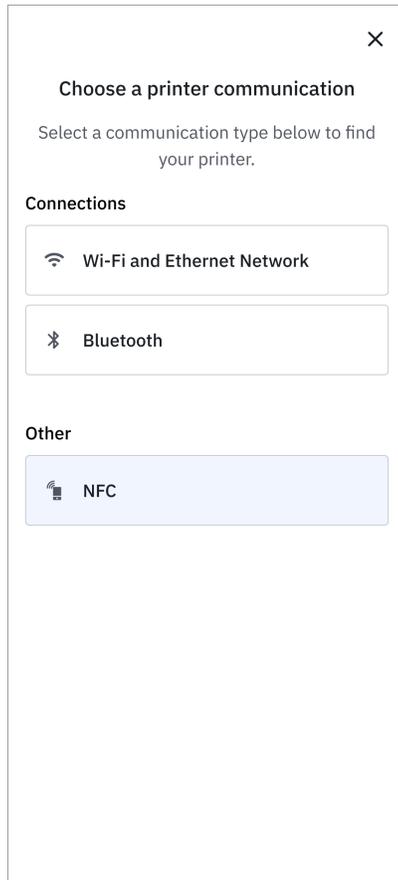
Zebra Print adds the selected printer to the **Printers** screen.

## Adding a Printer via NFC

This procedure describes adding a printer to the Zebra Print app using NFC.

1. Open the Zebra Print app on your Android device, and tap  to find a printer.



**2. Tap NFC.**

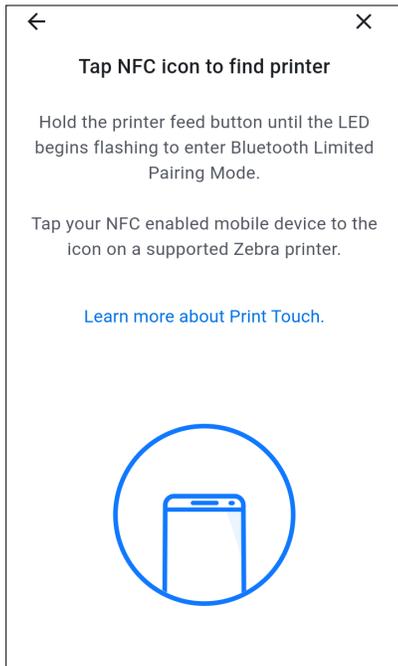
3. On the printer you are connecting to, tap the Android device to the NFC icon on the printer. If using a Bluetooth connection, enable Bluetooth pairing mode on the printer by holding the feed button for 5 seconds.



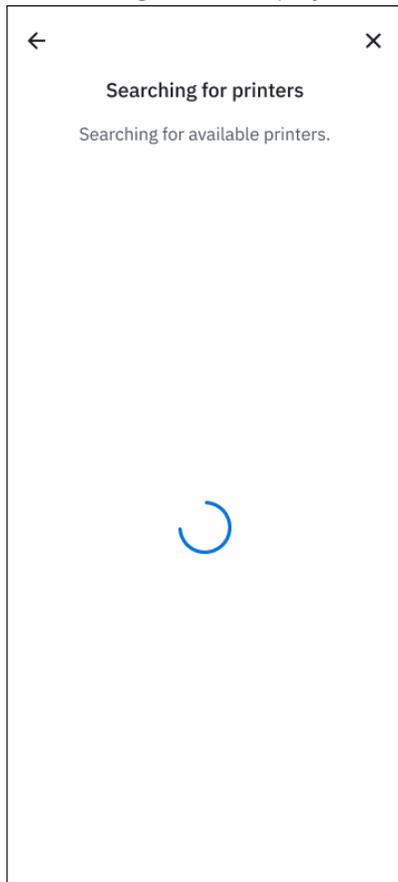
**NOTE:** Holding the FEED button for 5 seconds enables limited pairing mode, which enables discovery and pairing for 2 minutes. This allows the printer to operate safely with discoverable mode disabled until a user with physical access to the printer activates it. Upon entering Bluetooth Pairing Mode, the printer provides feedback that the printer is in this mode using one of two methods:

- On printers with a Bluetooth screen icon or Bluetooth LED, the printer flashes the Bluetooth icon or LED on and off every second while in pairing mode.

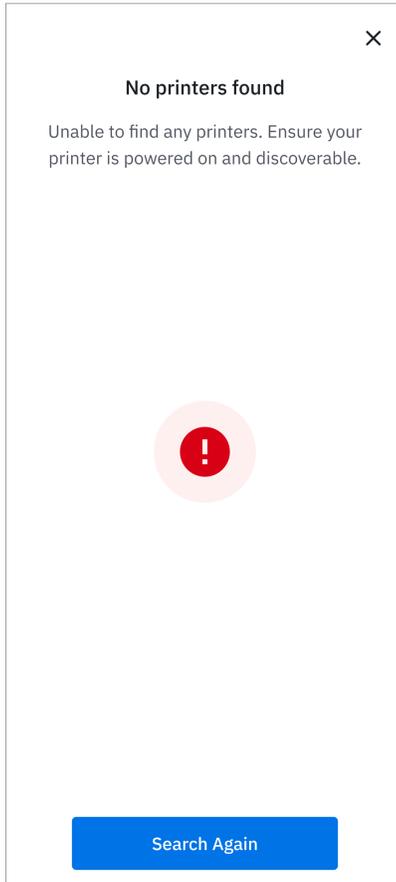
- On printers without a Bluetooth screen icon or Bluetooth LED, the printer flashes the Data icon or LED on and off every second while in pairing mode.



A **Searching** screen displays while the app searches for printers.



If no printers are found, the following screen displays. Tap **Search Again** to retry the search.

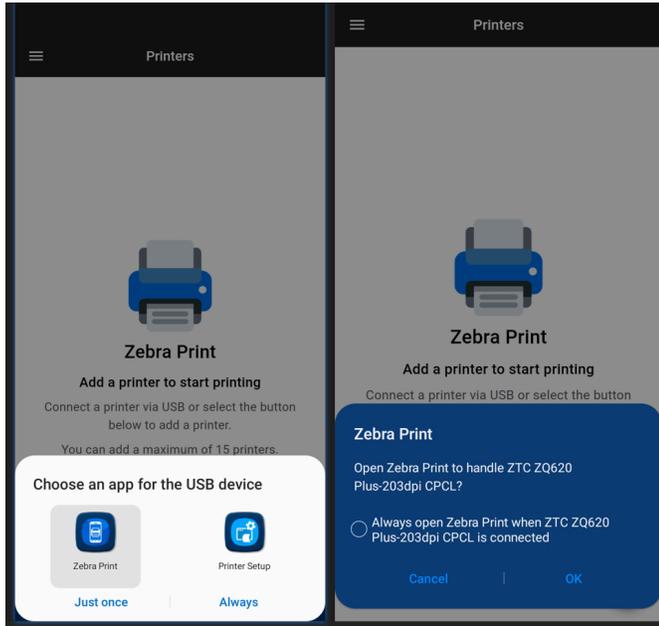


Upon a successful connection, the settings screen displays.

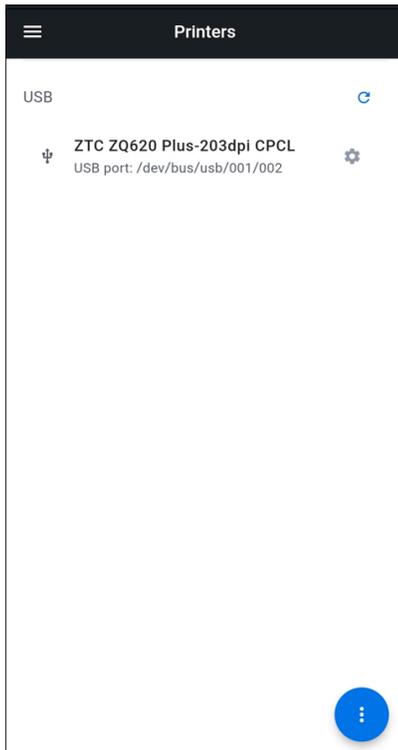
## Connecting a Printer via USB

This procedure describes connecting a printer to the Zebra Print app via USB.

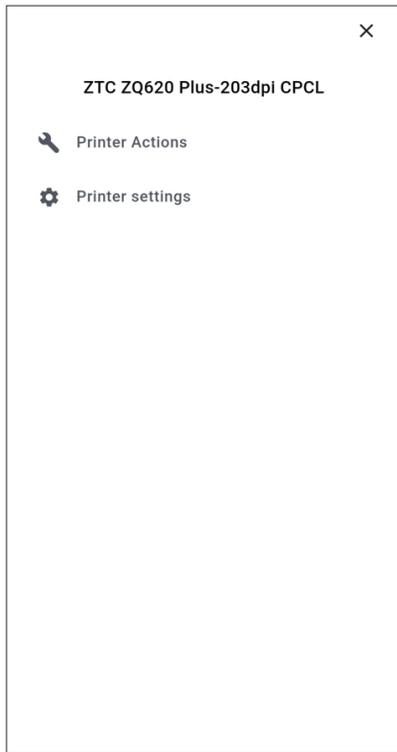
1. Connect the printer to the Android device via USB.
2. Select **Zebra Print** under **Choose an app for the USB device** if multiple apps on the device support USB connection, or tap **OK** on the permission dialog if there is no other USB app on the device.



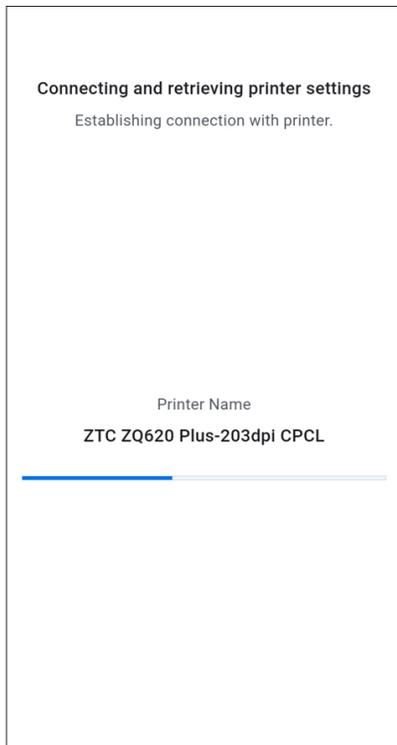
3. The printer is displayed in Zebra Print. To review and modify any settings (recommended), select the printer from the list.



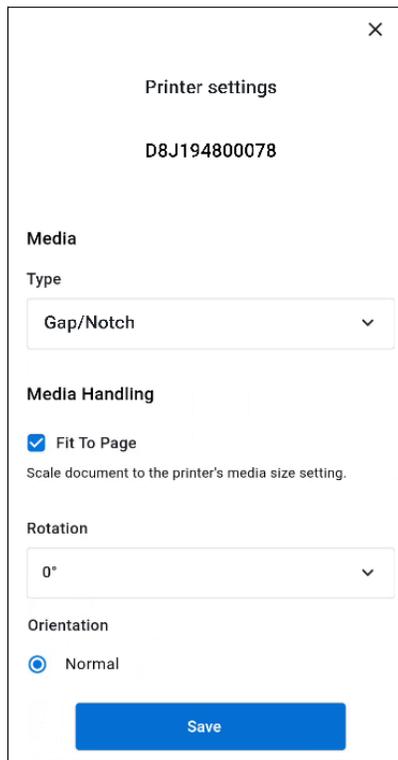
4. Click **Printer settings**.



Zebra Print connects to the printer and retrieves printer settings.



5. Modify any settings and click **Save**.



Printer settings

D8J194800078

**Media**

Type

Gap/Notch

**Media Handling**

Fit To Page  
Scale document to the printer's media size setting.

Rotation

0°

Orientation

Normal

Save

The printer displays on the **Printers** screen and is available for selection when printing via the print service.

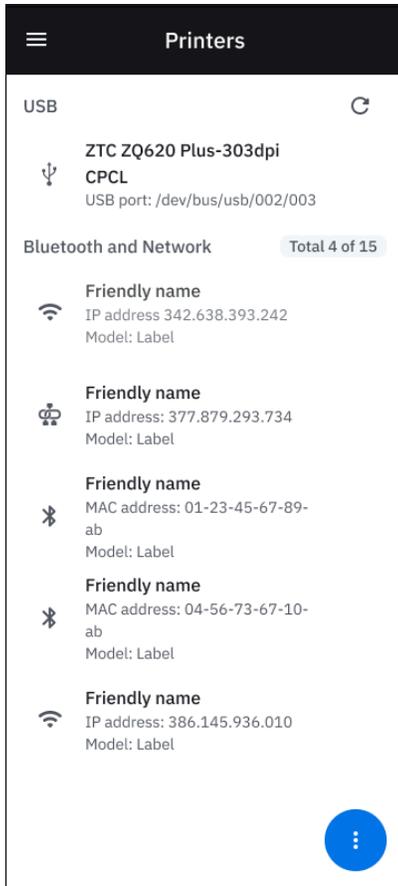


**NOTE:** When the USB printer is disconnected, it is not available to select in the print service and disappears from the printer list in Zebra Print.

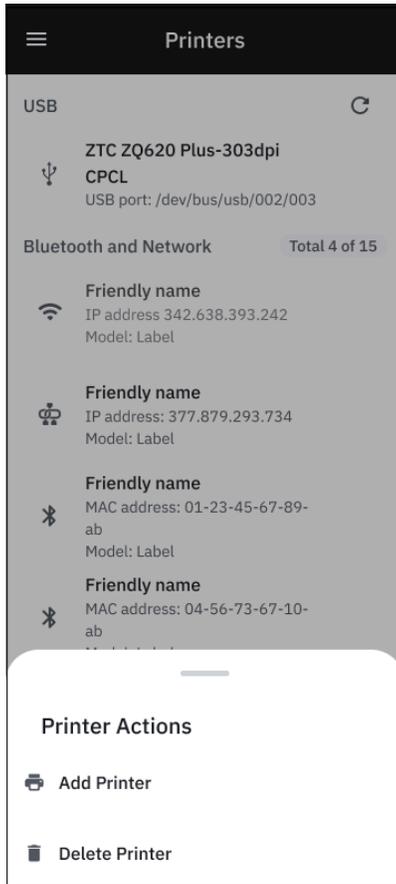
## Deleting a Printer

This procedure describes deleting a printer from the Zebra Print app.

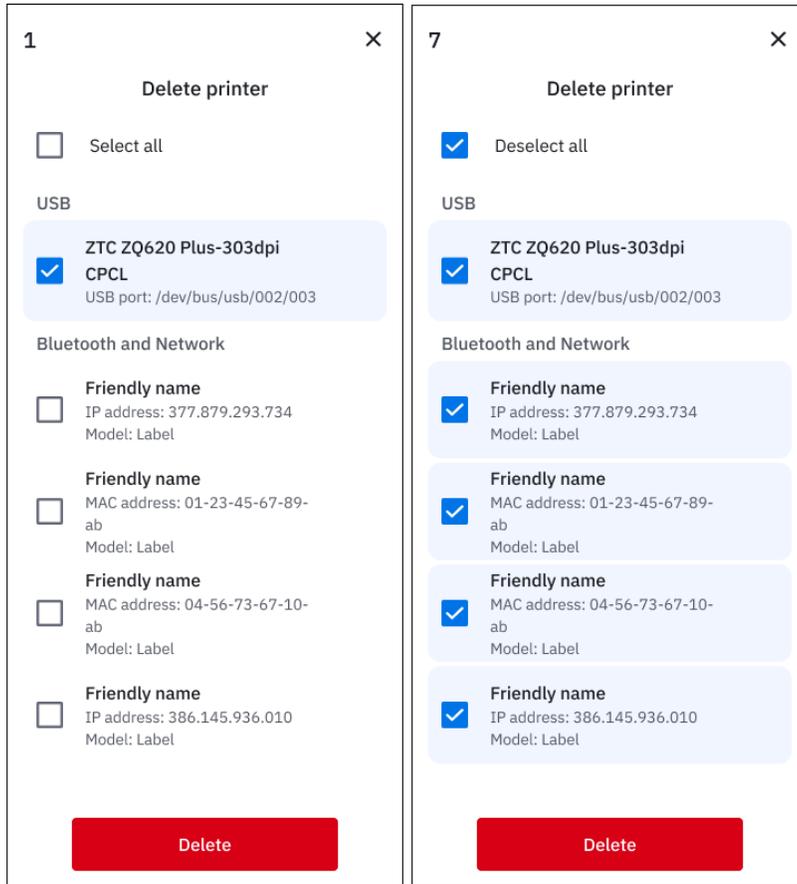
1. Tap .



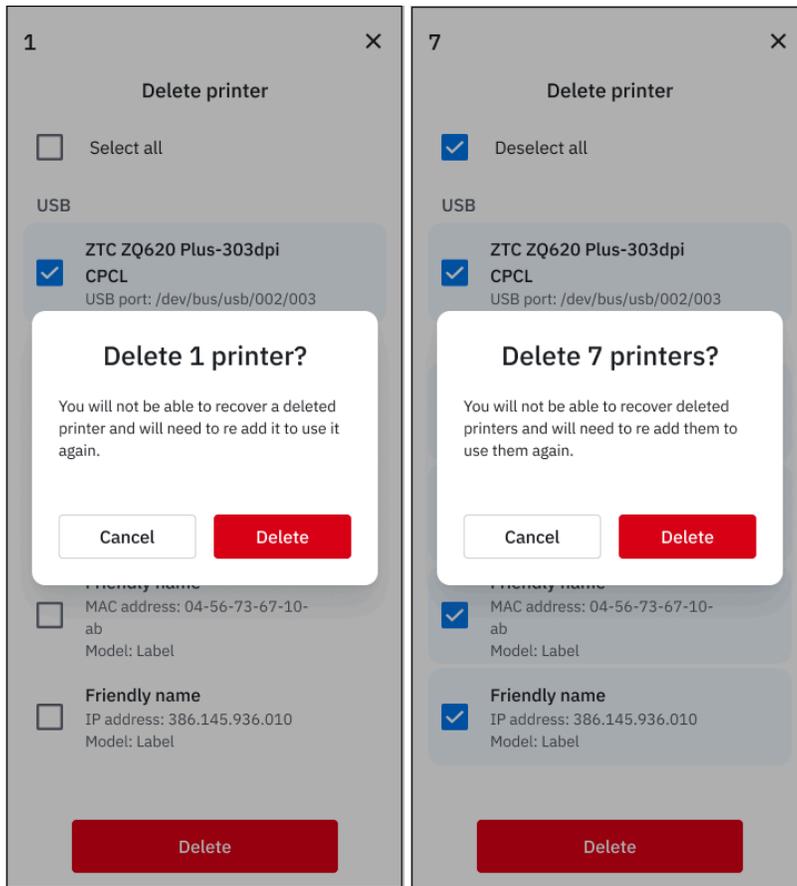
2. Tap **Delete Printer**.



3. Select a printer, or tap **Select all** to select all listed printers, and tap **Delete**.



4. Tap **Delete** again to confirm printer deletion, or **Cancel** to retain the printer(s).



The deleted printers no longer display in the **Printers** list, and are not available for selection when printing.

## Troubleshooting

This section provides troubleshooting solutions for potential problems when using Zebra Print.

**Table 1** Zebra Print Troubleshooting

Problem	Possible Solution
Your printer does not display in the network discovery list.	Connect to your printer manually.
Your printer does not display in the Bluetooth discovery list.	Place the printer in limited pairing mode.
You are unable to pair a printer when adding it via Zebra Print.	Use device settings to pair the printer.
Printers with Bluetooth discoverable mode set to off and security mode set to 1 or 2 are added to Zebra Print but connection fails when attempting to print.	Pair the printer in Android Bluetooth settings before adding the printer to Zebra Print.
Printer settings updated from another application are not reflected in the print preview.	Delete the printer and add it in the Zebra Print app.
Length and width of printed content is different from the printer settings displayed in the print preview.	Toggle print service from device settings: <b>Connected Devices &gt; Connection Preferences &gt; Printing &gt; Zebra Technologies</b> (toggle off and on)
The print job fails when printing via Bluetooth.	Exit the <b>Printer settings</b> page if open.
When discovering a printer, <b>No printer found</b> displays frequently.	Wait approximately five seconds and reattempt discovery.

## Tips

The following tips provide useful information when using Zebra Print.

- Tap to Pair (NFC) selects the network connection first if both network and Bluetooth connections are available for your printer.
- To connect via network using NFC, ensure your printer is network discoverable.
- When setting media type to labels (**Gap/Notch** or **Mark**), set the label length to match the label in the printer, and calibrate the media after saving the printer settings in Zebra Print. Refer to the printer user guide for calibration instructions.
- The **Fit to Page** option does not apply to printing photos and web content.
- Disabling **Fit to Page** results in a print orientation different than that selected in print preview.
- Adding a printer via Bluetooth or network discovery blocks attempts to add a printer via NFC. To continue with NFC pairing, exit the current **Add Printer** process.

