ZDownloader



User Guide

2025/05/21

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. ©2025 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. COPYRIGHTS: zebra.com/copyright. PATENTS: ip.zebra.com. WARRANTY: zebra.com/warranty. END USER LICENSE AGREEMENT: 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.

Contents

Introduction

	a Printer	6
	Auto-Detecting Printers	6
	Manually Adding Printers	6
	Adding a Serial Printer	7
	Adding a Parallel Printer	9
	Adding a Network Printer	10
	Adding a USB Printer	11
	Modifying Printers in the Printer List	12
	Deleting Printers from the Printer List	13
	Printing Test Pages	
Saving I	Printer Settings	14
	Restoring Printer Settings from a File	14
	Restoring Printer Settings from a File Updating the Printer Firmware	
		14
License	Updating the Printer Firmware	14 16
License	Updating the Printer Firmware Accelerating Printer Firmware Update	14
License	Updating the Printer Firmware Accelerating Printer Firmware Update d Content Management	14
License	Updating the Printer Firmware Accelerating Printer Firmware Update d Content Management Downloading Licensed Content Files to Printers	14
License	Updating the Printer Firmware Accelerating Printer Firmware Update d Content Management Downloading Licensed Content Files to Printers License Manager	

Contents

Introduction

ZDownloader simplifies updating Zebra Printer firmware and managing licensed content provided by Zebra Technologies.

This application supports Zebra printers connected by serial, parallel, USB, and IP Ethernet networks.

ZDownloader is supported on the following operating systems:

- 32-bit Windows 10
- 32-bit Windows 11
- 64-bit Windows 10
- 64-bit Windows 11

Figure 1 ZDownloader Application

💝 Untitled - ZDownloader			_			\times
File Edit View Printer Tools License Help						
※ 後 後 8 M 8 M 1 、 ※ 2 2 2 1						
Printer Name Model	Port	Download File	Download Status			
Printer#1 Zebra Technologies ZTC ZD621R-300dpi ZPL	USB	None Selected				
Ready				1	NUM	//

Adding a Printer

You can add printers to Zdownloader automatically or manually depending on your configuration.

Auto-Detecting Printers

Zdownloader detects and configures USB and IP-Ethernet printers automatically.

Your printer must connect via a USB or IP-Ethernet interface.

Begin auto-detecting printers by either:

- Clicking Son the toolbar.
- Selecting Printer > Auto-Detect.

The Auto-Detect dialogue box appears.

ease Wait		
Search	ing Local Network and	
	Cancel	

The detected printers are added to the printer list.



NOTE: The application broadcasts a UDP packet onto the network to detect Ethernet-connected printers. The discovery process uses UDP port number 4201. Some networks filter out UDP packets. This means it may be impossible to detect all printers on your network. See your network administrator for more information. If you cannot Auto-Detect your network printers, refer to Manually Adding Printers.

Manually Adding Printers

Zdownloader allows you to add printers with a variety of communication types.

Adding a Serial Printer

You can manually add a Serial Printer.

- 1. Click in on the toolbar.
- 2. Click Printer > Add.

The Printer Settings displays.

Printer Settings	
Printer Name:	Printer#1
Printer Model:	
Communication Type:	Serial 💌
Port: Printer Calibration afte download: (EPL Only) OK	COM1 Port Settings

- 3. In the **Printer Name** text box, enter a name for the printer.
- 4. In the **Printer Model** text box, enter the model number of the printer.
- 5. In the Communication Type drop-down, select Serial.
- 6. In the **Port** drop-down, select the serial port to which the printer is connected.



NOTE: You can view the printer's serial port settings by performing an AutoSense on the printer and reading the Dump Mode status labels' serial configuration data. Refer to the printer's <u>User Guide</u> for details. Example: 9600, N, 8, 1 which matches the Port Settings shown in step 7.

7. Click Port Settings.

The **Port Settings** displays.

Bits per second:	9600	-
Data bits:	8	Ŧ
Parity:	None	×
Stop bits:	1	
Flow Control	Hardware	•
	D- 44	ore Defaults

- 8. Enter the configuration data of the serial port.
- 9. Click OK.
- 10. In Printer Settings, click OK.

The serial printer is added to the printer list.

See Also

Adding a Network Printer Adding a USB Printer Adding a Parallel Printer

Adding a Parallel Printer

You can manually add a parallel printer.

- 1. Click 🎬 on the toolbar.
- 2. Choose: Printer > Add.

The Printer Settings window displays.

Printer Name:	Printer#1
Printer Model:	
Communication Type:	Parallel
Port: Printer Calibration after download: (EPL Only) OK	COM1 Port Settings

- 3. In the Printer Name text box, enter a name for the printer.
- 4. In the Printer Model text box, enter the model number of the printer.
- 5. From the Communication Type drop-down menu, select Parallel.
- 6. From the Port drop-down menu, select the port to which the printer is connected.
- 7. Click OK.

The printer is displayed in the Printer List.

See Also

Adding a Network Printer Adding a USB Printer Adding a Serial Printer

Adding a Network Printer

You can manually add an Ethernet printer.

- 1. Click 🎬 on the toolbar.
- 2. Select Printer > Add.

The Printer Settings window appears.

Printer Name:	Printer#1
Printer Model:	
Communication Type:	Serial 💌
Port: Printer Calibration afte download: (EPL Only)	
ОК	Cancel

- 3. In the **Printer Name** text box, enter a name for the printer.
- 4. In the **Printer Model** text box, enter the model number of the printer.

5. From the Communication Type drop-down menu, select Network.

The Printer Settings window updates.

Printer Name:	Printer#1
Printer Model:	
Communication Type:	Network 💌
TCP/IP Address:	0.0.0
Port:	9100
Printer Calibration afte download: (EPL Only)	
OK	Cancel

- 6. In the TCP/IP Address text box, enter the TCP/IP address of the printer.
- 7. In the Port text box, enter the port number of the printer.

NOTE: Press the printer's networking configuration status button, located next to the Ethernet interface on the printer or the PrintServer Ethernet adapter, to print a status label.

8. Click OK.

KA

The printer is added to the printer list.

See Also

Adding a USB Printer Adding a Serial Printer Adding a Parallel Printer

Adding a USB Printer

You can add a printer connected via USB by using Auto-Detect.

• USB printers can only be added by using Auto-Detect.

- All printers connected via USB have the list designation of USB.
- The program can support as many USB printers as the computer can.
- Computers can typically support up to 255 USB devices.

See Also

Adding a Network Printer Adding a Serial Printer Adding a Parallel Printer

Modifying Printers in the Printer List

Zdownloader allows you to modify printers in the Printer List.

- 1. Select a printer from the list.
- 2. Open Printer Settings in one of three ways:
 - Click 🥝 on the toolbar.
 - Select Printer > Modify.
 - Right-click on the printer in the list and select Modify Printer.

Printer Settings displays.

Printer Settings	X
Printer Name:	Printer#1
Printer Model:	ZTC ZD621R-300dpi ZPL
Communication Type:	USB 💌
Printer Calibration after download: (EPL Only) OK	Cancel

- 3. Configure the printer settings. Refer to Adding a Printer
- 4. Select Print Configuration Label after Download (EPL Only) checkbox to cause the printer to calibrate the sensor and print a configuration label. This ensures the media sensor is calibrated correctly, as a firmware download will overwrite existing values.
- 5. Click OK.

The printer settings are updated.

Deleting Printers from the Printer List

Zdownloader is capable of removing previously added printers.

- 1. Select the printer to be deleted from the Printer List.
- 2. Delete a printer from the Printer List with one of the following methods:
 - Click 20 on the toolbar.
 - Select Printer > Delete.
 - Right-click on the printer to be deleted and select Delete Printer(s).

The printer is removed from the Printer List.

Printing Test Pages

Zdownloader provides a variety of ways to print a test page.

- Click ¹/₂ for EPL test page.
- Click 🗱 for ZPL test page.
- Select the desired printer and press the **Print Test Page** toolbar button.
- Select Printer > Print EPL Test Page.
- Select Printer > Print ZPL Test Page.
- Right-click on the selected printers and select Print EPL Test Page.
- **Right-click** on the selected printers and select **Print ZPL Test Page**.

Saving Printer Settings

Zdownloader is capable of saving settings to a file.

- 1. Select File > Save Printer Settings.
- 2. Select a location for the Printer Settings file.
- **3.** Enter a name for the settings file.



- **NOTE:** Printer settings files are stored as .zps.
- 4. Select Save.

The printer settings are saved to a file.

Restoring Printer Settings from a File

Zdownloader is capable of restoring printer settings from a file.



NOTE: Restoring printer settings from a file erases printers currently on the Printer List.

- 1. Select File > Load Printer Settings File.
- 2. Locate the . zps file.
- 3. Select Open.

The saved printers display in the Printer List.

Updating the Printer Firmware

Zdownloader can assign and download firmware to each printer.

1. Select the printer from the Printer List.



TIP: Hold SHIFT down to select a range of printers. Hold CTRL to select individual printers.

- 2. Choose one:
 - Click 🗐 on the toolbar.
 - Select File > Select File.
 - Right-click the selected printer and select Select File.



NOTE: Printers that are present in the Printer List but do not have a firmware file are ignored when downloading starts.

- **3.** Navigate to the file to be downloaded.
- 4. Select Open.



The file is shown under the **Download File** column.

- 5. Download the printer firmware.
 - To download firmware to all printers, click to olbar.
 - To download firmware to specific printers, select the printer and select Printer > Download to Selected.



The progress of each printer displays in the **Download Status** column.

The ^X toolbar icon and the **Printer** > **Cancel Download** menu option is now available if the download must be canceled.

Accelerating Printer Firmware Update

Zdownloader is capable of updating several printers simultaneously.

Zdownloader downloads one update at a time by default; you can increase this number in order to reduce overall update time.

1. Select Tools > Options.

The Options window appears.



2. Increase or decrease the Maximum Simultaneous Downloads counter.



NOTE: Some computers may slow down as the number of simultaneous downloads increases.

Zdownloader is now capable of downloading several printer updates simultaneously.

Licensed Content Management

Licensed Content files are used in specific circumstances.

- Zebra Technologies provides Licensed Content files for content that may require tracking or regulation, such as special firmware or licensed fonts.
- Licensed Content files use the file extension .dss.
- A Licenced Content file may be downloaded from <u>Zebra.com/support</u> or received from your Zebra Account Manager.

Downloading Licensed Content Files to Printers

Licensed Content files are downloaded to printers using the same method as firmware.

You must configure the license associated with the Licensed Content files prior to downloading to the printer. Follow the steps for Configuring a Product License on page 20 to configure Licensed Content Files.

- 1. Configure the printers. Refer to Auto-Detecting Printers.
- 2. Select the Licensed Content file in one of the following ways:

🔈 Untitled -	ZDownloader						×
File Edit V	iew Printer Tools License Help						
😏 🚳 🕉	※增调 ℃ % 影 2 ?						
Printer Name	Model	Port	Download File	Download Status			
∰Printer#1	Zebra Technologies ZTC ZD621-203dpi ZPL	USB	Kit: P1096531, Cost: 1 Quantity				
Ready						NUM	1
						diff	oronco

- Select 💷 on the toolbar.
- Select File > Select File.
- 3. Right-click the Licensed Content file.



NOTE: The Licensed Content file has a .DSS extension and may be downloaded from <u>Zebra.com/support</u> or received from your Zebra Account Manager.

4. Select Download to Selected.

-	ed - ZDownloader					
	View Printer Tools License Help					
362	🍯 🥸 📲 🐮 🏷 🎘 🏂 😵					
Printer Na	me Model		Download File	Download Status		
SP.	Select File Clear Selected File Add Printer Delete Printer(s)	USB	Kit: P1096531, Cost: 1 Quantity			
	Download To Selected					
	Cancel Download Print EPL Test Page Print ZPL Test Page					



NOTE: If sending firmware, you may have to wait another minute for the printer to fully load after sending the file. Wait until the printer's LED light remains green for more than 5 seconds or the primary menu is shown on the screen before using it.

The Licensed Content file is downloaded to the printer.

Repeat this process to utilize additional license uses.

License Manager

Zdownloader contains a utility for managing installed licenses.

The **License Manager** simplifies updating Zebra Printer firmware and managing licensed content provided by Zebra Technologies. With the License Manager, you can:

- Check the status of a license using the Dashboard screen.
- Configure a license via the internet using the Configure screen.
- Clear a license via the internet using the Configure screen.
- Configure a proxy server using the Settings screen.
- Access License Manager version details from the info screen.

Opening the License Manager

Access the License Manager from the Zdownloader interface.



NOTE: Your computer must have access to the Internet to configure or clear licenses. If you connect to the Internet through a proxy server, configure the proxy server via the Settings screen before configuring or clearing licenses. Refer to Configuring the Proxy Settings on page 24.

1. Launch Zdownloader.

2. Select License > Launch License Manager.

The License Manager displays.

	License Manager	? - ×
DASHBOARD	Zebra Technologies	
UCENSE SETTINGS	690fc6ee-818b-4940-9f5a-aba5898f5de	7
INFO	PRODUCT CAG-Prototypes 25 20	EXPIRY 125-03-25

License Status

The Dashboard screen displays the license status of active licenses. If you do not have any active licenses, the dashboard will indicate N/A. For the active license code, depending on the mode, the dashboard provides the following information:

- Product type
- Remaining uses
- Expiry date



Configuring a Product License

Licenses must be entered and configured in License Manager.

M

NOTE: Your computer must have access to the Internet to configure or clear licenses. If you connect to the Internet through a proxy server, configure the proxy server via the Settings screen before configuring or clearing licenses. Refer to Configuring the Proxy Settings on page 24.



NOTE: A license must be obtained from the Zebra Custom Solutions (CAG) team.

1. Select License > Launch License Manager.

The License Manager displays.

	License Manager	? - ×
B DASHBOARD	Zebra Technologies	
LICENSE SETTINGS	690fc6ee-818b-4940-9f5a-aba5898f5de7	LICENSE
INFO	PRODUCT CAG-Prototypes 25 2025-1	EXPIRY 03-25

2. Click License.

The License Manager updates.

	License Manager	
B DASHBOARD	Zebra Technologies	
LICENSE SETTINGS INFO	Product Configuration Please take a few moments to configure your product. No personal data is sent durin configuration. It helps prevent illegal copying of this software and ensures you have genuine copy of the product. Please enter or paste the 36 character license code provided in the box below and cl 'CONFIGURE'. This product will attempt to use internet during configuration. If you have a firewall o proxy server it may prevent this process.	ick
	← 690fc6ee-818b-4940-9f5a-aba5898f5de7 CONFIGURE CLEAR	

- **3.** In the **OT** field, enter the license number.
- 4. Click Configure.

A message displays indicating the configuration was successful.

Clearing a License

Clearing a license allows the license to be moved to a different computer.

- The computer must be connected to the internet.
- If connecting to the internet through a proxy server, configure the proxy server before configuring the license code. Refer to Configuring the Proxy Settings on page 24.
- 1. Select License > Launch License Manager.

The License Manager displays.

	License	Manager	
S DASHBOARD	Zel	bra Technologies	
UCENSE	690fc6ee-81	8b-4940-9f5a-aba58	98f5de7
INFO	CAG-Prototypes	25	2025-03-25

2. Click License

The product configuration interface opens.

	License Manager					
DASHBOARD	Zebra Technologies					
 ✓ LICENSE ✿ SETTINGS ● INFO 	Product Configuration Please take a few moments to configure your product. No personal data is configuration. It helps prevent illegal copying of this software and ensures genuine copy of the product. Please enter or paste the 36 character license code provided in the box be 'CONFIGURE'. This product will attempt to use internet during configuration. If you have proxy server it may prevent this process.	you have a low and click				
	690fc6ee-818b-4940-9f5a-aba5898f5de7	CLEAR				

- **3.** Enter the License in the **OT** field.
- 4. Click Clear.

The license is deactivated and may be used on a different computer.

Configuring the Proxy Settings

The License Manager allows configuration of proxy server settings.

1. Select License > Launch License Manager.

The License Manager displays.

License	Manager	
Zeb	ora Technologies	
6006-600 81	%h 4040 0fFa ahaF9	UCENSE
09010000-010	op-4940-915a-apa5o	9015de7
CAG-Prototypes	• REMAINING USES 25	2025-03-25
	Zek 690fc6ee-81	

2. Click Settings.

The Proxy Settings screen displays.

	License Manager	
DASHBOARD	Zebra Technologies	
✓ LICENSE	Proxy Settings	
SETTINGS	Server Proxy server name or address	Port Proxy Port
0 INFO	Use proxy server	
	APPLY SETTINGS	

- **3.** In the **Server** text box, enter the server address.
- 4. In the Port text box, enter the port number.

- 5. Enable Use proxy server checkbox.
- 6. Click APPLY SETTINGS.



www.zebra.com