# ZDownloader



## **User Guide**

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## Contents

Introduction	. 5
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	u : : ::::::::::::::::::::::::::::::::	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 14
	Restoring Printer Settings from a File Updating the Printer Firmware Accelerating Printer Firmware Update	14 14 16
License	Restoring Printer Settings from a File Updating the Printer Firmware Accelerating Printer Firmware Update d Content Management	14 
License	Restoring Printer Settings from a File Updating the Printer Firmware Accelerating Printer Firmware Update d Content Management Downloading Licensed Content Files to Printers	14 
License	Restoring Printer Settings from a File Updating the Printer Firmware Accelerating Printer Firmware Update d Content Management Downloading Licensed Content Files to Printers License Manager	
License	Restoring Printer Settings from a File Updating the Printer Firmware Accelerating Printer Firmware Update d Content Management Downloading Licensed Content Files to Printers License Manager Opening the License Manager	
License	Restoring Printer Settings from a File Updating the Printer Firmware Accelerating Printer Firmware Update d Content Management Downloading Licensed Content Files to Printers License Manager Opening the License Manager Configuring a Product License	

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						
Printer Name Model	Port	Download File	Download Status			
<sup>IMP</sup> 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	IUSB
	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	<b>.</b>

- 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 Concel

- 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)	COM1  Port Settings
OK	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)	
ОК	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 <sup>1</sup>/<sub>2</sub> 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 <sup>X</sup> 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							
000			1	1			_	
Printer Name	Model	Port	Download File	Download Status				
Printer#1	Zebra Technologies ZTC ZD621-203dpi ZPL	USB	Kit: P1096531, Cost: 1 Quantity					
Ready						N	JUM	- /
to the second							diffe	aronce

- 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.

📚 Untitled - ZDownloader				-		×
File Edit View Printer Tools License Help	p					
S 6 8 9 1 8 1 1 1 1 2 3 1	?					
Printer Name Model	Port	Download File	Download Status			
Clear Select File Clear Selected File Add Printer Delete Printer(s)	3dpi ZPL USB	Kit: P1096531, Cost: 1 Quantity				
Download To Selected						
Cancel Download Print EPL Test Page Print ZPL Test Page						
					NUM	1.



**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			
B DASHBOARD	Zebra Technologies	s		
UCENSE	690fc6ee-818b-4940-9f5a-aba5898f5de7			
INFO	PRODUCT       REMAINING USES         CAG-Prototypes       25	O EXPIRY 2025-03-25		

#### **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		
UCENSE     SETTINGS	690fc6ee-818b-4940-9f5a-aba5898f5de7		
INFO	PRODUCT CAG-Prototypes 25 2	EXPIRY 025-03-25	

2. Click License.

The License Manager updates.

	License Manager	
S DASHBOARD	Zebra Technologies	
LICENSE     SETTINGS     INFO	Product Configuration Please take a few moments to configure your product. No personal data is sent duri 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 proxy server it may prevent this process.	ng a lick or
	← 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-818b-4940-9f5a-aba5898f5de7			
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 bel 'CONFIGURE'. This product will attempt to use internet during configuration. If you have proxy server it may prevent this process.	sent during you have a low and click a firewall or	
	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 Manage	er	? - ×
Zebra T	echnologies	;
600fc600 818h 40	040 0f5a aba51	LICENSE
09010000-0100-45	140-9158-80850	59615067
CAG-Prototypes	REMAINING USES 25	2025-03-25
	Zebra T 690fc6ee-818b-49 PRODUCT CAG-Prototypes	Iteense Manager         Zebra Technologies         690fc6ee-818b-4940-9f5a-aba53         Image: CAG-Prototypes         REMAINING USES         25

#### 2. Click Settings.

The Proxy Settings screen displays.

	License Manager	
B 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.



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