ZXP Series 1 and ZXP Series 3

RHEL 6.5 Driver
User’s Manual
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# Contents

## 1 • Getting Started  ....................................................... 3
- Introduction .................................................. 3
- Overview ................................................... 3
- Prerequisite ................................................... 3
- Extracting files using GUI .................................. 4
- Installation Wizard ........................................... 4
  - Prerequisite ................................................ 4
  - USB Printer Driver Installation ....................... 7
  - Ethernet Printer Driver Installation ................. 8
- Adding a Printer Manually ..................................... 9
- Extracting files using Terminal ......................... 11
- Uninstall ..................................................... 11

## 2 • Setup .............................................................. 13
- Printing Preferences ........................................ 13
- Printer Options ............................................. 14
  - Device Info .............................................. 16
  - Encoding Options ...................................... 17
  - Tools ...................................................... 19
  - About .................................................... 20
- Printer Properties: Test Print Card ...................... 20
- Printing From Libre Office .................................. 21
- Changing Printer Options .................................... 21

## 3 • Magnetic Encoding .............................................. 25
- Introduction .................................................. 25
- Magnetic Encoding Using Open Office .................. 25
- Magnetic Encoding Using Libre Office .................. 26
Contents

4 • Error Codes ......................................................... 29
  Out of Cards  ....................................................... 29
  Check Ribbon ..................................................... 30
  Cover Open ......................................................... 30
  Encoding Error .................................................... 31
  Lid Open ............................................................ 31
  Mechanical Error .................................................. 32
  Out of Ribbon ..................................................... 32
  Job Complete ...................................................... 33
  Low Ribbon ........................................................ 33

5 • Worldwide Support .............................................. 35
Getting Started

Introduction
The purpose of this document is describe how to install a Zebra ZXP Series 1 and ZXP Series 3 printer driver for Red Hat Enterprise Linux (RHEL) in detail. The document provides information on installation of ZXP Series 1 and ZXP Series 3 Printer on RHEL 6.5 operating systems on 32-bit and 64 Bit environments.

Overview
The Zebra ZXP Series 1 and ZXP Series 3 printer driver for RHEL supports color printing, dual side printing, magnetic encoding, and provides information about the printer and ribbon details.

Prerequisite
The Zebra ZXP Series 1 and ZXP Series 3 printer driver for RHEL has been tested on the following distributions of Linux:

- Red Hat Enterprise Linux 6.5 32 bit
- Red Hat Enterprise Linux 6.5 64 bit
1: Getting Started
Extracting files using GUI

Extracting files using GUI

To install the Zebra ZXP Series 1 and ZXP Series 3 Printer Driver for RHEI by means of GUI, the user needs to be a root user.

Click on the Zebra ZXP3 Series Card Printer Driver-0.0.0.xx-Linux-x86-Install.tar archive file to untar the setup for installation of the driver to a desired directory location.

**Note** • In the FireFox web browser the setup will be downloaded inside the download. Right click **Open Containing folder**; Right click **Open with Archive Manager**; Right click **Extract** or click **Extract**; select the desired location; Click **Extract**.

Installation Wizard

**Prerequisite**

The installation can be performed only from terminal with administrator mode. Type the Administrator password when prompted.

Open the terminal by clicking the menu Applications—System Tools—Terminal

Navigate to the directory where the driver files are extracted and enter `su` in the terminal and press the **Enter** key.

Enter the root password when prompted

Type the following commands in the terminal:
To install 64 bit driver

./Unified_Zebra_ZXP3_Series_Card_Printer_Driver-0.0.0.48-Linux-x86_64-Install

To install 32 bit driver

./Unified_Zebra_ZXP3_Series_Card_Printer_Driver-0.0.0.48-Linux-x86-Install

To install the driver, click Yes; click No to cancel the installation.

The License Agreement page appears. Select the radio button next to I accept the terms of the license agreement to continue the installation and click Next.

**Note:** The license agreement must be accepted to continue installation. Selecting I do not accept the terms of the license agreement and clicking Next will cancel the installation; as will clicking Cancel.

After accepting the license agreement, the Printer Model selection screen is displayed. From the pull-down menu, select the printer model to be installed and click Next.
Select the type of printer to be installed: USB or Ethernet.
USB Printer Driver Installation

Note • Do not plug in the USB Printer before the Installation is complete.

Upon selecting the USB printer type and clicking next, the installation progress will be displayed. The driver files will be copied into the following directories:

• /usr/lib/cups/filter/rastertozxp3
• /usr/lib/cups/filter/pstozxp3ps

After the copying is complete, the final Install Jammer Wizard page shows that the driver has been installed successfully.

Click Finish into complete the installation and exit the Installer.
1: Getting Started

Installation Wizard

Ethernet Printer Driver Installation

Upon selecting the Ethernet printer type and clicking **Next**, a window will display the IP addresses of the connected ZXP Series 3 card printers.

Select the IP address of the printer and click **Next**. The driver files will be copied into the following directories:

- `/usr/lib/cups/filter/rastertozxp3`
- `/usr/lib/cups/filter/pstozxp3ps`
- `/usr/local/ZebraZXP3Driver/`

After the copying is complete, the final Install Jammer Wizard page shows that the driver has been installed successfully.

Click **Finish** to complete the installation and exit the Installer.
Adding a Printer Manually

To add the printer manually, select the menu System—Administration—Printing. The printer properties window will open. Select the New from the Printer properties as shown in below.

Enter the root password. Then select the printer to install.

Select the printer to install and provide the root password if prompted.

Select the driver from the installed driver list.
1: Getting Started
Adding a Printer Manually

Select the Zebra printer.

Click **Forward** to add the printer. The new printer will be updated in the Printer properties window.
Extracting files using Terminal

Launch the terminal by selecting Applications—System Tools—Terminal.

Locate the Zebra Linux Driver tar file: Unified_Zebra_ZXP3_Series_Card_Printer_Driver-0.0.0.x-Linux-x-Install.tar.gz.

Extract the Binary file using the following command:

```
tar -xvf Unified_Zebra_ZXP3_Series_Card_Printer_Driver-0.0.0.x-Linux-x-Install.tar.gz
```

Run the Installation inside the extracted directory using the following command:

```
su ./Unified_Zebra_ZXP3_Series_Card_Printer_Driver-0.0.0.48-Linux-x86_64-Install
```

Proceed with the installation using the setup wizard.

Uninstall

To Remove the Zebra ZXP Series 3 Printer Application:

Launch the terminal by selecting Applications—System Tools—Terminal.

Change the Directory: cd /usr/local/ZebraZXP3Driver

Run the Uninstall program using the following command:

```
./uninstall
```

Click Yes to continue, otherwise click No to cancel the uninstall.
1: Getting Started
Extracting files using Terminal

Click OK.

Click Finish.
Note: The following instructions are for the USB interface. If you are using the Ethernet interface, the corresponding screens will refer to the Network Printer.

**Printing Preferences**

Go to the menu System—Administration—Printing to display all the available installed printers. Select the printer and click **Select** to open the Printer Preferences menu.

The Printing Preferences application will launch and display the available installed printers. Select the printer and click on the **Select** button to open the Printer Preferences page of the corresponding printer.
Select the Printer click **Select**.

### Printer Options

- **Orientation**: Selection for portrait or landscape printing.
- **Rotate 180 Degree**: Selection for rotating the image 180°.
- **Print on both sides**: Selection for single-sided or dual-sided printing.
- **Monochrome Conversion**: Specifies the method of monochrome conversion used in printing. Different selections have different effects on the way the image is printed.
- **Printing Mode**: Sets the type of printing required:
  - Print
  - Encode only (Use this when magnetic encoding is the only function desired, printing will not occur).
• Print and Encode on same side.

• Ribbon type: The supported ribbons are displayed.

• Ribbon combinations: Are based on ribbon type; for example:

  • YMCKO 100 Images, YMCKO 200 Images, YMCKO 280 Images
    • Front YMCO, Back K
    • Front YMCKO, Back YMCKO
    • Front YMC, Back KO
    • Front YMCKO
  • 1/2 YMCKO 250, 1/2 YMCKO 400
    • Front YMCO, Back K
    • Front YMCKO, Back YMCKO
    • Front YMC, Back KO
    • Front YMCKO
  • YMCKOK 165, YMCKOK 230
    • Front YMCKO, Back YMCKO
    • Front YMC, Back KO
    • Front YMCK, Back K
    • Front YMCKO, Back K
    • Front YMCKO
  • YMCKOKO
    • Front YMCO, Back K
    • Front YMCKO, Back YMCKO
    • Front YMC, Back KO
    • Front YMCK, Back K
    • Front YMCKO, Back K
    • Front YMCKO
    • Front YMCKO, Back KO
    • Front YMCK, Back KO
  • 1/2 YMCKOKO 250
    • Front YMCO, Back K
    • Front YMCKO, Back YMCKO
    • Front YMC, Back KO
    • Front YMCK, Back K
    • Front YMCKO, Back K
    • Front YMCKO
    • Front YMCKO, Back KO
    • Front YMCK, Back KO
  • K Resin
    • Front K / Back K
2: Setup
Printer Options

- Front K
- KDO 500 image, KDO 700 image
  - Front KdO / Back KdO
  - Front KdO
- KRO 500 image, KRO 700 image
  - Front KrO / Back KrO
  - Front KrO
- Std Mono chrome, High capacity mono chrome
  - Front K / Back K
  - Front K
- Auto detect Half panel: Insert the Half panel ribbon into the printer. Auto detects checkbox is checked automatically.

Device Info

- **Printer Model**: Displays the current Printer Model
- **FW Version**: Displays the Current firmware version in the Printer
- **Serial Number**: Displaying the Printer Serial Number
- **Ribbon Type**: Displaying the Current Ribbon Information
- **Head Resistance**: Displaying the Head Resistance Information
- **Mag Encode**: Mag encoding Option is support and Not supported Option
- **Panels Printed**: The number of Panels are printed status information.
• **Remaining Count**: The Ribbon Remaining count status information

• **Smart Card Type**: The smart card supported status information

**Encoding Options**

![Encoding Options](image)

• **Track 1 encoding mode**: The following options are displayed.
  - ISO1
  - ISO2
  - ISO3

• **Track 1 Bit Density**: The following options are displayed.
  - 210 bpi
  - 75 bpi

• **Track 2 encoding mode**: The following options are displayed.
  - ISO1
  - ISO2
  - ISO3

• **Track 2 Bit Density**: The following options are displayed.
  - 210 bpi
2: Setup
Printer Options

- 75 bpi

- **Track 3 encoding mode**: The following options are displayed.
  - ISO1
  - ISO2
  - ISO3

- **Track 3 Bit Density**: The following options are displayed.
  - 210 bpi
  - 75 bpi

- **Coercivity**: Select the type of coercivity of magnetic stripe cards to be used. The list of options is displayed.
  - High coercivity
  - Low coercivity

- **Encoding Position**: The default encoder position normal is displayed.

- **Encoder Type**: The default encoder Type ISO/jis is getting displayed.

**Direct Encoding**

- **Track 1**: Allowed Characters are $ ^ ( ) . / - <space> and Caps (Alphabets), Numeric. Length: 76

- **Track 2**: Allowed characters are Numbers and Symbol = and Length: 37

- **Track 3**: Allowed characters are Numbers and Symbol = and Length: 104

- **Encode**: Enter the Mag track value in the Text box field and click Encode Button

- **Read**: Encode the mag track details and insert the card in to the printer and click read button

- **Eject Card**: The card Eject from the Printer

- **Restore Defaults**: Settings are restored.

- **Apply**: Selected settings are applied successfully.
Tools

- **Command to send to printer**: Enter the command in the *Command to send to printer* text box and click *Execute*.

- **Print Test card**: The following options are displayed in the *Print Test card* drop-down list:
  - Standard
  - Encoder Parameters
  - Printer Parameters

- **Cleaning**: The following options are displayed in the cleaning drop-down list.
  - Printer Only
  - Magnetic Encoder

- **Offset Setting**: Enter the X and Y offset values and click the “Set Offset” button on the Offset setting. Test card should be printed with the change the printer offset value.

- **Single feed Options**: Current Status displays the current card feed method; choices are Card feeder, Single feeder slot, and Auto feed.

- **FW Download**: Browse and select the Firmware file and click download button the FW is downloading successfully.
2: Setup

Printer Properties: Test Print Card

- **Send PRN File**: Browse the Saved PRN file and click Send file button. The PRN file Printed Successfully.

**About**

The *About* tab displays the Printer Model and Driver Version information.

**Printer Properties: Test Print Card**

The Printing Properties will list all the available printers. Right click on the available printer and select *Properties* and click *Test Print*. 
Printing From Libre Office

Open the suitable document. Click on the File menu and then select Print. Select the appropriate printer and click Print. The print job will be sent to the printer.

Changing Printer Options

To change the printer options go to Application—Zebra ZXPS 3 Printer Driver—Zebra ZXPS 3 Printer Driver Properties screen. The installed printers will be displayed; select the appropriate printer.

To change the printer options go to System Tools—Admin—Printing, then it will show the installed printers. From that select the appropriate printer. Then following screen will appear.
Select the appropriate printing option and click *Apply*; enter the root password to save the settings.

A warning icon will be displayed next to an incorrect setting. A warning dialog box will appear advising the user to correct the errors to be able to save the changes.
2: Setup
Changing Printer Options

There are conflicting options. Changes can only be applied after these conflicts are resolved.

Ribbon Name
Ribbon Combination

Close
Introduction

The purpose of this document is to describe how to perform magnetic encoding with the Zebra ZXP Series 1 and ZXP Series 3 printer driver for Linux, using Libre Office, in detail. The document provides information on magnetic encoding with ZXP Series 1 and ZXP Series 3 Printer on 32-bit and 64-bit Linux operating systems tested on RHEL 6.5 environment.

Magnetic Encoding Using Open Office

Open any existing document with magnetic encoding data or create a new document.
Click the *File* menu and select *Print*. Select the desired printer from the available printers list and print the document.

**Magnetic Encoding Using Libre Office**

Open any existing document with magnetic encoding data or create a new document.

Click the *File* menu and select *Print*. Select the desired printer from the available printers list and click *Properties*. 
3: Magnetic Encoding

Magnetic Encoding Using Libre Office

Click the Device tab. From the Printer Language type drop-down select the Post Script (Level from driver) and click OK.

**Note** • In Open office the print job will use the Postscript Pre-filter but the Libre office uses the PDF Pre-filter. The PDF data is in encrypted format so we are not able to extract the Magnetic Encoding data from the file. In order to do the Magnetic encoding successfully using Libre Office the above setting is required.

Track 1 will accept only 76 characters. And it should accept Uppercase, Numbers and the special characters like " $,\,-,(),space,,/"
3: Magnetic Encoding
Magnetic Encoding Using Libre Office

Track 2 will accept only 37 characters. It should accept only numbers and " = " sign.

Track 3 will accept only 104 characters. It should accept only numbers and " = " sign.
4

Error Codes

Out of Cards

The printer is out of cards. Load cards to continue the print job, or click Cancel to cancel the job.
4: Error Codes

Check Ribbon

No ribbon or incorrect ribbon is installed. Load the correct ribbon to continue the print job. or click Cancel to cancel the job.

Cover Open

The card feeder cover is open. Close the cover to continue the print job. or click Cancel to cancel the job.
Encoding Error

The error has occurred during the Encoding process. Inspect the cards for proper type and orientation. Replace or re-orient as necessary to continue the print job. or click Cancel to cancel the job. If the problem persists, clean the magnetic encoder.

Lid Open

The printer lid is open. Close the lid to continue the print job. or click Cancel to cancel the job.
4: Error Codes

Mechanical Error

Check for evidence of Card Jam. Clear the error and press the printer button to continue the print job. or click Cancel to cancel the job.

Out of Ribbon

The printer is out of ribbon or the ribbon has broken. Correct the error to continue the print job. or click Cancel to cancel the job.
Job Complete

Job completed. Remove card to continue the print job. or click Cancel to cancel the job.

Low Ribbon

The alert is displayed in the when the Ribbon is low and needs to be replaced. Replace the ribbon to continue the print job. or click Cancel to cancel the job.
Appendix 5

Worldwide Support

For Technical Support or Repair Services, contact the appropriate facility listed below.

**North America and Latin America - Technical Support**

T:  +1 877 ASK ZEBRA (877 275 9327)
    +1 847 913 2259
E:  tsl@zebra.com

**North America and Latin America - Repair Services**

Before returning any equipment to Zebra Technologies Corporation for in-warranty or out-of-warranty repair, contact Repair Services for a Repair Order (RO) number. Mark the RO number clearly on the outside of the box. Ship the equipment, freight prepaid, to the address listed below:

Zebra Technologies Repair Services
333 Corporate Woods Parkway
Vernon Hills, IL 60061

webform: [www.zebra.com/repair](http://www.zebra.com/repair)
T:  +1 877 ASK ZEBRA (877 275 9327)
E:  repair@zebra.com
5: Worldwide Support

Europe, Middle East, and Africa - Technical Support

<table>
<thead>
<tr>
<th>Language</th>
<th>Phone</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arabic</td>
<td>+971 (0)46058220</td>
<td><a href="mailto:zebraCareUAE@zebra.com">zebraCareUAE@zebra.com</a></td>
</tr>
<tr>
<td>Dutch</td>
<td>+31 (0)33 450 50 48</td>
<td><a href="mailto:ZebraCareBNL@zebra.com">ZebraCareBNL@zebra.com</a></td>
</tr>
<tr>
<td>English (UK)</td>
<td>+44 (0)1628 556 225</td>
<td><a href="mailto:zebraCareUK@zebra.com">zebraCareUK@zebra.com</a></td>
</tr>
<tr>
<td>(Sweden)</td>
<td>+46 (0)8 594 709 88</td>
<td><a href="mailto:zebraCareUK@zebra.com">zebraCareUK@zebra.com</a></td>
</tr>
<tr>
<td>(South Africa)</td>
<td>+27 (0)11 201 7712 / 0860 393272</td>
<td><a href="mailto:zebacareSA@zebra.com">zebacareSA@zebra.com</a></td>
</tr>
<tr>
<td>French</td>
<td>+33 (0) 1 53 48 12 74</td>
<td><a href="mailto:zebraCareFR@zebra.com">zebraCareFR@zebra.com</a></td>
</tr>
<tr>
<td>German</td>
<td>+49 (0) 2159 676 870</td>
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<tr>
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<td>+97 236 498 140</td>
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<td><a href="mailto:zebraCareRU@zebra.com">zebraCareRU@zebra.com</a></td>
</tr>
<tr>
<td>Spanish</td>
<td>+34 (0) 917 992 896</td>
<td><a href="mailto:zebraCareES@zebra.com">zebraCareES@zebra.com</a></td>
</tr>
<tr>
<td>Turkish</td>
<td>+90 212 314 1010</td>
<td><a href="mailto:zebraCareTR@zebra.com">zebraCareTR@zebra.com</a></td>
</tr>
</tbody>
</table>

For further assistance, contact:

Zebra Technologies Card Printer Solutions
Dukes Meadow
Millboard Road, Bourne End
Buckinghamshire SL8 5XF, UK

T: +44 (0) 1628 556 025
F: +44 (0) 1628 556 001
E: cardts@zebra.com
Europe, Middle East, and Africa - Repair Services

Before returning any equipment to Zebra Technologies Corporation for in-warranty or out-of-warranty repair, contact your supplier for a Return Materials Authorization (RMA) number, or contact one of the following repair centers for support and instructions:

<table>
<thead>
<tr>
<th>Type of repair and location</th>
<th>Phone</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td>Depot Repair in Germany,</td>
<td>+49 (0) 2159 676</td>
<td><a href="mailto:zebracareDE@zebra.com">zebracareDE@zebra.com</a></td>
</tr>
<tr>
<td>Austria, Switzerland</td>
<td>870</td>
<td></td>
</tr>
<tr>
<td>Depot Repair in France</td>
<td>+33 (0) 1 53 48</td>
<td><a href="mailto:zebracareFR@zebra.com">zebracareFR@zebra.com</a></td>
</tr>
<tr>
<td></td>
<td>12 74</td>
<td></td>
</tr>
<tr>
<td>Depot and On-Site Repair in</td>
<td>+44 (0) 1628 556</td>
<td><a href="mailto:zebracareUK@zebra.com">zebracareUK@zebra.com</a></td>
</tr>
<tr>
<td>UK and Ireland</td>
<td>225</td>
<td></td>
</tr>
<tr>
<td>Depot Repair in South Africa</td>
<td>+27 (0) 11 201</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>7777</td>
<td></td>
</tr>
<tr>
<td>Depot Repair in Middle East</td>
<td>+971 (0) 46058220</td>
<td><a href="mailto:support_dxb@emitac.ae">support_dxb@emitac.ae</a></td>
</tr>
</tbody>
</table>

For further assistance, contact:

For assistance anywhere in the EMEA, contact After Sales Customer Services at:

T: +44 (0) 177 2 69 3069
E: ukrma@zebra.com
Asia Pacific - Technical Support
Zebra Technologies Asia Pacific Pte. Ltd.
120 Robinson Road
#06-01 Parakou Building
Singapore 068913

T: +65 6858 0722
F: +65 6885 0838
E: tsasiapacific@zebra.com

Asia Pacific - Repair Services
Before returning any equipment to Zebra Technologies Corporation for in-warranty or out-of
warranty repair, contact Repair Services for a Return Materials Authorization (RMA) number.
Repack the equipment in the original packing material, and mark the RMA number clearly on the
outside. Ship the equipment, freight prepaid, to either address listed below:

Zebra Technologies Asia Pacific Pte. Ltd.
No.5 Changi North Way Level 3
Singapore 498771
Agility Building

T: +65 6546 2670 ext 3203 and 3204
F: +65 6546 5328
E: APACRepair@zebra.com

Zebra Website

www.zebra.com
km.zebra.com (Knowledge Base)