

4T520

GENERIC ZENPERT 4T520 Thermal Transfer & Direct Thermal Printer User Manual

1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your GENERIC ZENPERT 4T520 Thermal Transfer & Direct Thermal Printer. Please read this manual thoroughly before using the printer to ensure optimal performance and longevity.

2. PRODUCT OVERVIEW

The ZENPERT 4T520 is a versatile thermal printer designed for both thermal transfer and direct thermal printing applications. It features a compact design and supports various media types for efficient label printing.



Figure 2.1: Front view of the GENERIC ZENPERT 4T520 Thermal Printer.

zenpert
TVS

4T520
Desktop Thermal Transfer
Bar Code Printer
USER FRIENDLY DESIGN,
THE PERFECT FIT!

Fast speed printing User friendly design Varied printing application Reliable & stable Power saving Clear print quality

Feature

- Smooth printing experience
- Large supplies capacity - 355 meters (186) 1 ribbon supply or 110 meters (561) ribbon supply on a 12.7 mm (0.5) core
- Print width up to 102 mm-supports multiple media types
- Position adjustable sensor - print precisely
- Automatic calibration - speed up printing test
- Media window design - easily check supplies stock status
- High-class thermal printing head - clear print quality and enhance durability
- User friendly design for easy installing media and ribbon
- USB 2.0 fast transmission speed
- Print quality - low operation noise providing quality working environment
- Optimized heat radiation design - durable for large volume printing

Advantages *Thousands of service centers across India*

- Compact design and stable performance
- Two printing methods - support direct thermal & thermal transfer
- Varied printing application - after labeling software
- Print fast (4 ips) - save working time

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Mob-9936300026,9919093143

1 Year warranty

Figure 2.2: Overview of key features and advantages of the ZENPERT 4T520 printer, including fast speed printing, user-friendly design, varied printing application, reliability, power saving, and clear print quality.

Key Features:

- Supports Thermal Transfer and Direct Thermal printing methods.
- High-resolution printing at 203 DPI.
- Maximum print speed of 152mm per second (6 inches per second).
- Equipped with multiple sensors: Transmissive gap, Black mark reflective, Ribbon end, and Head open.
- USB 2.0 interface for connectivity.

3. SETUP

Follow these steps to set up your ZENPERT 4T520 printer:

1. **Unpacking:** Carefully remove the printer and all accessories from the packaging. Verify that all components listed in the packing list are present. Included items typically are: Quick start guide, USB cable, Power cord, External universal switching power supply, Label spindle (x1), Fixing tab (x2), 1-inch ribbon spindle (x2), 0.5-inch ribbon spindle (x2).
2. **Power Connection:** Connect the power cord to the external universal switching power supply, then connect the power supply to the printer's power input. Plug the power cord into a suitable electrical outlet.
3. **USB Connection:** Connect the USB cable from the printer to your computer.
4. **Media Loading:** Open the printer cover. Install the label spindle and fixing tabs. Load the appropriate media (labels) onto the spindle, ensuring it feeds correctly through the printer mechanism. Refer to the 'Operating Instructions' section for detailed media loading procedures.
5. **Ribbon Loading (for Thermal Transfer):** If using thermal transfer printing, install the ribbon onto the designated ribbon spindles. Ensure the ribbon is correctly tensioned and aligned.
6. **Driver Installation:** Install the printer drivers on your computer. Refer to the quick start guide or manufacturer's website for driver download and installation instructions.

4. OPERATING INSTRUCTIONS

4.1 Loading Media

The ZENPERT 4T520 supports various media types including continuous, die-cut, black mark, fan-fold (outside wound), and notched labels. Ensure the media width is between 19 mm and 118 mm (0.8" to 4.6") and the roll size does not exceed 127 mm (5") OD.

1. Open the printer's top cover.
2. Place the media roll onto the label spindle.
3. Feed the leading edge of the media through the media guides. Adjust the guides to fit the media width snugly but without restricting movement.
4. Close the printer cover. The printer will automatically calibrate to the media type if equipped with auto-calibration features.

4.2 Loading Ribbon (Thermal Transfer Mode)

For thermal transfer printing, a ribbon is required. The printer supports ribbons with an outside diameter of 300m (max. OD 67mm, 1" core) or 110m (max. OD 40mm, 0.5" core), with a width between 40 mm and 110 mm (1.6" to 4.3").

1. Open the printer's top cover.
2. Mount the ribbon supply roll onto the supply spindle.
3. Feed the ribbon through the print head assembly as indicated by the printer's internal diagrams.
4. Attach the ribbon to the take-up spindle and rotate it to remove any slack.
5. Close the printer cover.

4.3 Printing

Once the printer is set up and media/ribbon are loaded, you can send print jobs from your computer. Ensure the correct printer driver is selected in your application's print settings.

Supported Barcode Symbologies:

The printer supports a wide range of 1D and 2D barcode symbologies:

- **1D Barcodes:** Code 128UCC, Code 128 subsets A, B, C, EAN128, Interleaved 2 of 5, Interleaved 2 of 5 with check digit, Code 39, Code 39 with check digit, Code 93, EAN13, EAN8, UPCA, UPCE, EAN and UPC 2 (5) digits add-on, Codabar, Postnet, MSI, MSI with check digit, PLESSEY, China post, ITF14, Code 11, TELEPEN, TELEPENN, PLANET, Code49, Deutsche Post Identcode, Deutsche Post Leitcode, LOGMARS.
- **2D Barcodes:** GS1 DataBar, GS1 DataMatrix, Maxicode, AZTEC, PDF417, QR Code, Micro PDF 417.

5. MAINTENANCE

Regular maintenance ensures consistent print quality and extends the life of your printer.

- **Cleaning the Print Head:** Periodically clean the print head with an approved print head cleaning solution or isopropyl alcohol and a lint-free cloth. Ensure the printer is powered off and cooled down before cleaning.
- **Cleaning the Platen Roller:** Clean the platen roller with isopropyl alcohol to remove any adhesive residue or dust.
- **General Cleaning:** Keep the printer's interior and exterior free of dust and debris using a soft, dry cloth.

- **Media and Ribbon Storage:** Store media and ribbons in a cool, dry place away from direct sunlight to prevent degradation.

6. TROUBLESHOOTING

If you encounter issues with your printer, refer to the following common troubleshooting steps:

- **No Power:** Check the power cord connection to the printer and the electrical outlet. Ensure the power adapter is functioning correctly.
- **No Print Output:** Verify that the printer is connected to the computer via USB and that the correct printer driver is installed and selected. Check for any error messages on the printer's display or your computer.
- **Poor Print Quality:** Clean the print head and platen roller. Ensure the correct media and ribbon (if applicable) are loaded and properly aligned. Adjust print darkness settings in the printer driver.
- **Media Jams:** Open the printer cover and carefully remove any jammed media. Ensure media is loaded correctly and media guides are properly adjusted.
- **Ribbon Errors:** For thermal transfer printing, ensure the ribbon is loaded correctly, not twisted, and has sufficient supply. Check for ribbon end sensor activation.

For persistent issues, contact customer support.

7. SPECIFICATIONS

Feature	Specification
Model Name	4T520
Printing Technology	Thermal Transfer & Direct Thermal
Resolution	8 dots/mm (203 DPI)
Maximum Print Width	108 mm (4.25")
Maximum Print Speed	152 mm/s (6 ips)
Print Length	5 ~ 25,400 mm (0.2" ~ 1000")
Memory	16 MB Flash, 64 MB SDRAM
Sensors	Transmissive gap, Black mark reflective, Ribbon end, Head open
Interface	USB 2.0
Media Width	19 ~ 118 mm (0.8" ~ 4.6")
Media Roll Size	127 mm (5") OD
Media Thickness	0.06 ~ 0.19 mm (2.36 ~ 7.48 mil)
Media Types	Continuous, die-cut, black mark, fan-fold (outside wound), notched
Ribbon Outside Diameter	300 m long, max. OD 67 mm, 1" core; 110 m long, max. OD 40 mm, 0.5" core
Ribbon Width	40 mm ~ 110 mm (1.6" ~ 4.3")
Operating Temperature	0 ~ 40°C

Feature	Specification
Storage Temperature	-20 ~ 60°C
Operating Humidity	10 ~ 85% (non-condensing)
Storage Humidity	5 ~ 90% (non-condensing)
Item Weight	3 kg 330 g
Printer Output	Monochrome

8. WARRANTY AND SUPPORT

The GENERIC ZENPERT 4T520 printer typically comes with a **1 Year Warranty** from the date of purchase. Please retain your proof of purchase for warranty claims.

For technical support, service, or warranty inquiries, please contact your distributor or the manufacturer's authorized service center. For inquiries related to the distributor mentioned in product information, you may contact Additri Edge India Pvt Ltd. at Mobile: 9936300026, 9919093143.