



# LP/TLP 2824-Z LP/TLP 2844-Z TLP 3844-Z™

Thermal, On-demand Label, Receipt, Wristband and Tag Printers

## Affordable desktop printers deliver unmatched performance and versatility

Direct thermal (LP 2824-Z and LP 2844-Z™) and thermal transfer (TLP 2824-Z, TLP 2844-Z™ and TLP 3844-Z) bar code label printers bring powerful performance to applications requiring a space-saving desktop printer.

## Flexible connectivity

With serial, parallel and USB interfaces, plus an internal or external ZebraNet® PrintServer II option for easy connection to your network, LP/TLP 2824-Z, LP/TLP 2844-Z and TLP 3844-Z printers meet a variety of connectivity needs. They are fully compatible with Zebra® Programming Language (ZPL II®) for seamless integration with other Zebra printers. They also offer ZebraLink™ and ZebraNet™ Bridge real-time connectivity and control for centralised printer management.



Reliability on demand™

LP/TLP 2824-Z  
LP/TLP 2844-Z  
TLP 3844-Z



The LP/TLP 2824-Z, LP/TLP 2844-Z and TLP 3844-Z integrate easily into a variety of lower-volume printing applications including:

- Shipping/receiving
- Warehouse shelf labelling and inventory control
- Healthcare specimen labelling and patient tracking
- Retail product marking, shelf labelling and coupon and receipt printing
- Transportation/logistics
- E-commerce postage



### ZebraLink Solutions

With ZebraLink Solutions, you can take advantage of the latest innovations today and tomorrow. Zebra is continually adding new features and options to give you more ways to connect, more ways to control your printers, and more ways to manage your enterprise.

#### Software

ZebraDesigner™ Pro

ZebraNet™ Bridge Enterprise

ZebraNet Utilities v 7.0

#### Networking

ZebraNet PrintServer II

#### Firmware

*ZPL II*® - Universal language for Zebra printers. Simplifies label formatting and enables format compatibility with other Zebra printers.

*Web View* - Enables you to connect and control your bar code printer's Web interface using a common Web browser.

*Alert* - Printers equipped with ZebraNet print servers will notify you via any email-enabled, wired, or wireless device to minimize downtime.

## LP 2824-Z

### Direct Thermal Printer

A space-saving printer, providing high-quality output, perfect for small-media applications such as wristbands. Complete with ZPL II, making integration easy with your existing Zebra network.

Applications include:

- Retail
  - point-of-sale
  - shelf labelling
  - product marking
- Healthcare
  - specimen labelling
  - patient tracking
- Small office
  - mailing
  - file and folder labelling

#### Maximum Print Area

Width: 56mm (2.2")  
Length: 990mm (39")  
(with standard memory)

#### Resolution

8 dots per mm (203dpi)

#### Maximum Print Speed

102mm (4") per second

#### Memory

Standard: 4MB flash; 8MB SDRAM  
Optional: 8MB flash; with real-time clock (12MB total)

#### Physical Characteristics

Width: 91mm (3.6")  
Depth: 191mm (7.5")  
Height: 173mm (6.8")  
Weight: 1.2kg (2.7lb)

#### Media Specifications

Label and liner width:  
25.4mm (1") to 60mm (2.36")  
Width with adapter guide  
15mm (0.585") to 37mm (1.44")

## TLP 2824-Z

### Direct Thermal and Thermal Transfer Printer

The TLP 2824-Z provides a convenient solution for printing low-volume long-life labels that may be exposed to heat or sunlight, thanks to its thermal transfer print capability. Based on ZPL II, integration is seamless where Zebra printers are already installed.

Applications include:

- Retail product or shelf marking in garden centres
- Pharmaceutical labels
- Laboratory samples
- Patient records
- Asset management

#### Maximum Print Area

Width: 56mm (2.2")  
Length: 990mm (39")  
(with standard memory)

#### Resolution

8 dots per mm (203dpi)

#### Maximum Print Speed

102mm (4") per second

#### Memory

Standard: 4MB flash; 8MB SDRAM  
Optional: 8MB flash; with real-time clock (12MB total)

#### Physical Characteristics

Width: 140mm (5.5")  
Depth: 241mm (9.5")  
Height: 178mm (7")  
Weight: 1.6kg (3.5lb)

#### Media Specifications

Label and liner width:  
25.4mm (1") to 60mm (2.36")



**LP 2844-Z**

**Direct Thermal Printer**

The LP 2844-Z printer brings powerful performance and exceptional versatility to the desktop class. With serial, parallel and USB interfaces, plus network connection options, the LP 2844-Z meets a variety of connectivity needs.

Easily integrated into a variety of applications including:

- Shipping/receiving
- Warehouse shelf labelling and inventory control
- Healthcare specimen labelling and patient tracking
- Retail product marking, shelf labelling and coupon and receipt printing
- Transportation and logistics

**Maximum Print Area**

Width: 104mm (4.09")  
Length: 990mm (39")  
(with standard memory)

**Resolution**

8 dots per mm (203dpi)

**Maximum Print Speed**

102mm (4") per second

**Memory**

Standard: 4MB flash (2.75MB available to user) 8MB SDRAM (4MB available to user)  
Optional: 8MB flash (for a total of 12MB with a total of 10.75MB available to user)

**Physical Characteristics**

Width: 193mm (7.6")  
Depth: 208mm (8.2")  
Height: 168mm (6.6")  
Weight: 1.4kg (3.2lb)

**Media Specifications**

Label and liner width:  
25.4mm (1") to 108mm (4.25")  
Width with adapter guide  
22mm (0.85") to 71mm (2.8")



**TLP 2844-Z**

**Direct Thermal and Thermal Transfer Printer**

The thermal transfer TLP 2844-Z bar code label printer offers great performance in a space-saving desktop-size 104mm (4.09") printer. With its OpenACCESS® design and clear media loading and monitoring, the TLP 2844-Z is easy to use; increasing efficiency in workplaces such as:

- Hospitals and healthcare
- Retail product marking
- E-commerce postage

**Maximum Print Area**

Width: 104mm (4.09")  
Length: 990mm (39")  
(with standard memory)

**Resolution**

8 dots per mm (203dpi)

**Maximum Print Speed**

102mm (4") per second

**Memory**

Standard: 4MB flash (2.75MB available to user) 8MB SDRAM (4MB available to user)  
Optional: 8MB flash (for a total of 12MB with a total of 10.75MB available to user)

**Physical Characteristics**

Width: 198mm (7.8")  
Depth: 238mm (9.4")  
Height: 173mm (6.8")  
Weight: 1.7kg (3.7lb)

**Media Specifications**

Label and liner width:  
25.4mm (1") to 108mm (4.25")  
Width with adapter guide:  
22mm (0.85") to 71mm (2.8")



**TLP 3844-Z**

**Direct Thermal and Thermal Transfer Printer**

The 300dpi printhead enables high-quality, crisp, clear printing for labelling applications that feature data such as two-dimensional barcodes, fine text or complex graphics. The TLP 3844-Z can be quickly and easily integrated into an Ethernet environment with the optional internal ZebraNet PrintServer II.

Perfect for very small labels such as:

- Laboratory or prescription bottle labelling
- Circuit board labels
- Small tags for jewellery

**Maximum Print Area**

Width: 104mm (4.09")  
Length: 990mm (39")  
(with standard memory)

**Resolution**

12 dots per mm (300dpi)

**Maximum Print Speed**

102mm (4") per second

**Memory**

Standard: 4MB flash (2.75MB available to user) 8MB SDRAM (4MB available to user)  
Optional: 8MB flash (for a total of 12MB with a total of 10.75MB available to user)

**Physical Characteristics**

Width: 198mm (7.8")  
Depth: 238mm (9.4")  
Height: 173mm (6.8")  
Weight: 1.7kg (3.7lb)

**Media Specifications**

Label and liner width:  
25.4mm (1") to 108mm (4.25")  
Width with adapter guide:  
22mm (0.85") to 71mm (2.8")

## Standard Features

- Print methods: Direct thermal (LP) or direct thermal/thermal transfer (TLP)
- Construction: ABS double-walled casing
- 4MB flash memory (2.75MB available to user); 8MB SDRAM (4MB available to user)
- OpenACCESS design
- Serial, parallel and USB interfaces
- ZebraLink-enabled
- ZebraNet Bridge
- 32-bit RISC processor
- Zebra's E<sup>30</sup> printhead energy control

- Scalable fonts
- Transmissive and reflective media sensing
- Head-up sensor

## Programming Languages

- ZPL II<sup>®</sup> – Universal language for Zebra printers. Simplifies label formatting and enables compatibility with other Zebra printers

## Operating Characteristics

### Environment

- Operating Temperature 5°C (40°F) to 41°C (105°F)
- Storage/Environment -40°C (-40°F) to 60°C (140°F)
- Operating Humidity 10 to 90% non-condensing
- Storage Humidity 5 to 95% non-condensing

### Electrical

- Autoranging external power supply  
Input: 100-240VAC; 50-60Hz  
Output: 20VDC; 2.5A

### Communication Interface Capabilities

- Serial RS-232 (DB9)
- Centronics<sup>®</sup> Parallel (36-pin)
- USB version 1.1
- Internal Ethernet (with optional ZebraNet PrintServer II)

### Agency Approvals

- Emissions: FCC Part 15, Subpart B, VCCI, C-Tick
- Emissions and Susceptibility: (CE): EN55022 Class-B, EN61000-3-2, EN61000-3-3 and EN55024
- Safety: CB Scheme IEC 60950:1991 +A1 +A2 +A3 +A4, UL 60950 and C-UL, IRAM, NOM, AAMI

## Media Characteristics

### Labels and Tags

#### Max. Roll Size

- 127mm (5") O.D. on a 25.4mm (1") I.D. core or 38mm (1.5") I.D. core

#### Thickness (label & liner)

- 0.08mm (0.003") to 0.18mm (0.007")

#### Media Types

- Roll-feed or fanfold, die-cut or continuous direct thermal labels with or without black mark, tag stock

### Ribbons

#### Ribbon Width

- 33mm (1.3") to 110mm (4.3")

#### Core I.D.

- 13mm (0.5")

#### Ribbon O.D.

- 33mm (1.3")

#### Ribbon Length

- 74m (244') using 0.0083mm (0.00033") ribbon thickness

#### Ribbon Type

- Wax, wax/resin and resin

NOTE: For optimum print quality and printer performance, use genuine Zebra ribbon and a notched ribbon core.

## Fonts/Graphics/Symbologies

### Fonts and Character Sets

- Standard Fonts: 16 bitmapped, 1 smooth-scalable (CG Triumvirate™ Bold Condensed)
- IBM<sup>®</sup> Code Page 850 International character set
- Optional European and Asian font sets

### Graphic Features

- Supports user-defined fonts and graphics – including custom logos
- ZPL II drawing commands – including boxes and lines

### Bar Code Symbologies

- Linear Bar Codes: Code 11; Code 39; Code 93; Code 128 with subsets A/B/C and UCC Case Codes; Codabar; Industrial 2-of-5; Standard 2-of-5; Interleaved 2-of-5; ISBT-128; Logmars; MSI; Plessey; UCC/EAN-128; UPC-A, UPC-E, EAN-8, EAN-13 with 2 or 5 digit extensions
- 2-Dimensional Codes: MaxiCode; Data Matrix; Codablock; MicroPDF417; Code 49; QR Code; RSS composite

## Options and Accessories

- Expanded memory – up to 8MB flash with real-time clock (for a total of 12MB, 10.75MB user-available)
- Dispenser – Label peel and present with label-taken sensor
- Optional Internal Ethernet (ZebraNet PrintServer II) and Serial RS-232 (RJ-11)

- BAR-ONE<sup>®</sup> software – Microsoft<sup>®</sup> Windows<sup>®</sup>-based "WYSIWYG" European & Asian font sets
- Cutter
- Liner-free platen (LP only)
- External rewinder
- Media adapter guides

For further information on these products, please visit the Zebra web site at:  
[www.zebra.com](http://www.zebra.com)



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