



## Zebra® Desktop Series

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

### **High-quality desktop printers deliver unmatched reliability and versatility.**

Zebra's Desktop printer family offers a comprehensive choice of direct thermal (LP) and thermal transfer (TLP) models for 2- and 4-inch wide printing—each with distinctive characteristics to ensure your specific application is fully satisfied.

### **Small Size with No Compromise in Performance**

Media loading is simplified thanks to the OpenACCESS® design, which tucks the printhead into the printer's top cover, and provides a clear media window for easy monitoring. Just drop the media in, shut the cover, and start printing! Maximize workplace efficiency with a 5-inch media roll capacity (for fewer label roll changes) and a space-saving, compact design. Their durable, dual-wall construction ensures that Desktop series printers will withstand rough handling in your busy work environment.

### **Flexible Connectivity**

For optimal integration in today's networked environments, select from serial, parallel, and USB interfaces, or opt for internal Ethernet connectivity with Zebra's ZebraNet® PrintServer II. Zebra's ZPL II®-based desktop printers offer programming flexibility with a real time connectivity and control solution via Zebra advanced printer management.

The Desktop series printers integrate easily into a variety of mid- to low-volume printing applications including:

- Shipping/Receiving—shipping labels, returns, picking
- Warehouse/Distribution—shelf labeling, inventory control
- Retail—shelf labeling, product marking, shipping/receiving, returns, coupon and receipt printing
- Patient Safety—patient identification, medication administration, specimen labeling, record/film tracking



# EPL™ Desktop Series

## Zebra's Eltron Programming Language



### LP/TLP 2824

Ideal for retail and other low- to mid-volume label applications, the value-packed, ultra-compact LP/TLP 2824 printers for 2-inch-wide printing redefine the compact printer class. They fit into areas other printers cannot, while they optimize productivity with a full 5-inch media capacity and a maximum print speed of 4 inches per second.

#### LP/TLP 2824

##### MAXIMUM PRINT AREA

Width: 2.2"/56 mm  
 Length in page mode (2" wide):  
 11"/279 mm (with standard memory)  
 22"/558 mm (with optional memory)  
 Length in line mode: Unlimited (LP only)

##### RESOLUTION

203 dpi/8 dots per mm

##### MEMORY

Standard: 512 KB Flash; 128 KB SRAM  
 Optional: 1 MB Flash; 256 KB SRAM

##### PHYSICAL CHARACTERISTICS

LP 2824	TLP 2824
Width: 3.9"/99 mm	Width: 5.12"/130 mm
Depth: 7.5"/190 mm	Depth: 9.25"/235 mm
Height: 6.8"/173 mm	Height: 7"/178 mm
Weight: 2.7 lbs./1.2 kg	Weight: 3.5 lbs./1.6 kg

\*Weight of printer only; no media or options

##### MEDIA SPECIFICATIONS

Max. Label and liner width: 2.36"/60 mm  
 Media width with Media Adapter Guide (LP only): 0.585"/15 mm to 1.44"/37 mm  
 Ribbon width: 1.3"/34 mm to 2.24"/57 mm (TLP only)  
 Ribbon length: 2928"/244/74 m (TLP only)

### LP/TLP 2844

Ideal for applications such as shipping and receiving, parcel delivery, warehouse management, retail, and healthcare, Zebra's space-saving LP/TLP 2844 printers offer efficient and reliable 4-inch-wide desktop labeling at an affordable price.

These simple-to-operate, low-maintenance printers reduce training requirements and operating costs, and provide flexible solutions through a variety of options and accessories.

#### LP/TLP 2844

##### MAXIMUM PRINT AREA

Width: 4.09"/104 mm  
 Length in page mode:  
 11"/279 mm (with standard memory)  
 22"/558 mm (with optional memory)  
 Length in line mode: Unlimited (LP only)

##### RESOLUTION

203 dpi/8 dots per mm

##### MEMORY

Standard: 512 KB Flash; 256 KB SRAM  
 Optional: 1 MB Flash; 512 KB SRAM

##### PHYSICAL CHARACTERISTICS

LP 2844	TLP 2844
Width: 7.6"/193 mm	Width: 7.8"/198 mm
Depth: 8.5"/216 mm	Depth: 9.4"/238 mm
Height: 6.6"/168 mm	Height: 6.8"/173 mm
Weight: 3.2 lbs./1.5 kg	Weight: 3.7 lbs./1.7 kg

\*Weight of printer only; no media or options

##### MEDIA SPECIFICATIONS

Max. Label and liner width:  
 1"/25.4 mm to 4.25"/108 mm  
 Media width with Media Adapter Guide:  
 0.875"/22 mm to 2.8"/71 mm  
 Ribbon width (outside diameter):  
 1.3"/33 mm to 4.3"/110 mm (TLP only)  
 Ribbon length: 2928"/244/74 m (TLP only)

### TLP 3842

The space-saving TLP 3842 desktop printer, for print widths up to 4 inches, adds high-resolution print capability to Zebra's popular and proven Desktop series. The TLP 3842's 300-dpi print-head enables high-quality, crisp, clear printing of two-dimensional bar codes, fine text, and complex graphics—ensuring high-density data on very small labels is easy to read and highly scannable.

#### TLP 3842

##### MAXIMUM PRINT AREA

Width: 4.09"/104 mm  
 Length in page mode:  
 11"/279 mm (with standard memory)  
 22"/558 mm (with optional memory)

##### RESOLUTION

300 dpi/12 dots per mm

##### MEMORY

Standard: 1 MB Flash; 512 KB SRAM  
 Optional: 1.2 MB SRAM

##### PHYSICAL CHARACTERISTICS

Width: 7.8"/198 mm  
 Depth: 9.4"/238 mm  
 Height: 6.8"/173 mm  
 Weight: 3.7 lbs./1.7 kg

\*Weight of printer only; no media or options

##### MEDIA SPECIFICATIONS

Max. Label and liner width:  
 1"/25.4 mm to 4.25"/108 mm  
 Media width with Media Adapter Guide:  
 0.875"/22 mm to 2.8"/71 mm  
 Ribbon width (outside diameter):  
 1.3"/33 mm to 4.3"/110 mm  
 Ribbon length: 2928"/244/74 m

# ZPL® Desktop Series

## Zebra Programming Language



**LP/TLP 2824-Z**

**LP/TLP 2844-Z**

**TLP 3844-Z**

The ultra-compact LP/TLP 2824-Z printers for 2-inch print widths offer powerful performance and throughput with a 32-bit processor and ZPL II (Zebra Programming Language). A perfect fit for space-constrained work areas, these printers provide high-productivity, consistently clear printing perfect for small media applications where high-quality printing is a must.

The LP/TLP 2844-Z printers bring powerful performance and exceptional versatility to the desktop class. Equipped with a 32-bit microprocessor for fast label processing and throughput, these 4-inch printers provide unparalleled productivity. They are based on ZPL II (Zebra Programming Language) for simplified label formatting and seamless integration where full-size Zebra printers are already installed.

The TLP 3844-Z's 300-dpi printhead enables high-quality, crisp, clear printing for labeling applications that require data such as two-dimensional bar codes, fine text, or complex graphics. Scanning and reading data on very small labels, for example laboratory vial labels or jewelry tags, is greatly enhanced. Quickly and easily network the TLP 3844-Z into an Ethernet environment with the optional internal ZebraNet PrintServer II.

### LP/TLP 2824-Z

#### MAXIMUM PRINT AREA

Width: 2.2"/56 mm

Length: 39"/990 mm (with standard memory)

#### RESOLUTION

203 dpi/8 dots per mm

#### MEMORY

Standard: 8 MB Flash; 4 MB SRAM

Optional: 8 MB Flash; with real-time clock (12 MB total)

#### PHYSICAL CHARACTERISTICS

##### LP 2824-Z

Width: 3.6"/91 mm

Depth: 7.5"/191 mm

Height: 6.8"/173 mm

Weight: 2.7 lbs./1.2 kg

##### TLP 2824-Z

Width: 5.5"/140 mm

Depth: 9.5"/241 mm

Height: 7"/178 mm

Weight: 3.5 lbs./1.6 kg

\*Weight of printer only; no media or options

#### MEDIA SPECIFICATIONS

Max. Label and liner width: 2.36"/60 mm

Media width with Media Adapter Guide (LP only): 0.585"/15 mm to 1.44"/37 mm

Ribbon width: 1.3"/34 mm to 2.24"/57 mm (TLP only)

Ribbon length: 2928"/244"/74 m (TLP only)

### LP/TLP 2844-Z

#### MAXIMUM PRINT AREA

Width: 4.09"/104 mm

Length: 39"/990 mm (with standard memory)

#### RESOLUTION

203 dpi/8 dots per mm

#### MEMORY

Standard: 8 MB SDRAM; 4 MB Flash

Optional: 8 MB Flash with real time clock (12 MB total)

#### PHYSICAL CHARACTERISTICS

##### LP 2844-Z

Width: 7.6"/193 mm

Depth: 8.5"/216 mm

Height: 6.6"/168 mm

Weight: 3.2 lbs./1.5 kg

##### TLP 2844-Z

Width: 7.8"/198 mm

Depth: 9.4"/238 mm

Height: 6.8"/173 mm

Weight: 3.7 lbs./ 1.7 kg

\*Weight of printer only; no media or options

#### MEDIA SPECIFICATIONS

Max. Label and liner width:

1"/25.4 mm to 4.25"/108 mm

Media width with Media Adapter Guide:

0.875"/22 mm to 2.8"/71 mm

Ribbon width (outside diameter):

1.3"/33 mm to 4.3"/110 mm (TLP only)

Ribbon length: 2928"/244"/74 m

### TLP 3844-Z

#### MAXIMUM PRINT AREA

Width: 4.09"/104 mm

Length: 39"/990 mm (with standard memory)

#### RESOLUTION

300 dpi/12 dots per mm

#### MEMORY

Standard: 8 MB SDRAM; 4 MB Flash

Optional: up to 8 MB Flash with real time clock (12 MB total)

#### PHYSICAL CHARACTERISTICS

Width: 7.8"/198 mm

Depth: 9.4"/238 mm

Height: 6.8"/173 mm

Weight: 3.7 lbs./ 1.7 kg

\*Weight of printer only; no media or options

#### MEDIA SPECIFICATIONS

Max. Label and liner width:

1"/25.4 mm to 4.25"/108 mm

Media width with Media Adapter Guide:

0.875"/22 mm to 2.8"/71 mm

Ribbon width (outside diameter):

1.3"/33 mm to 4.3"/110 mm

Ribbon length: 2928"/244"/74 m

# Desktop Series



## Specifications at a Glance\*

### ALL MODELS

#### STANDARD FEATURES

Print method: Direct thermal (LP) or direct thermal/thermal transfer (TLP)  
Construction: ABS double-walled casing  
OpenACCESS design  
Head up sensor  
Serial, parallel, and USB interfaces  
Windows drivers (95, 98, NT v.4.0, 2000, XP)  
Windows printer utilities

#### MAXIMUM PRINT SPEED

4"/102 mm per second  
2"/51 mm per second (TLP 3842)

#### OPERATING CHARACTERISTICS

##### Environment

Operating Temp: 40° F/5° C to 105° F/41° C  
Storage/Transport Environ. -40° F/-40° C to 140° F/60° C  
Operating Humidity 10–90% non-condensing  
Storage Humidity 5–95% non-condensing

##### Electrical

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

##### Communication and Interface Capabilities

Serial RS232 (DB9)  
Centronics® Parallel (36 pin)  
USB v 1.1  
Optional Internal Ethernet (ZebraNet PrintServer II)

##### Agency Approvals

UL-CUL, FCC, VCCI, C-TICK, CB, CE, CCC, NOM, IRAM, BSMI, GOST (Refer to technical specification for each individual product for further details.)

#### FONTS/GRAPHICS/SYBLOGIES

##### Graphic Features

Line and box drawing  
PCX graphic storage

##### Bar Code Symbologies

Codabar; Code 39; Code 93; Code 13 with subsets A/B/C and UCC Case Codes; Interleaved 2-of-5; Plessey; UCC/EAN-128; UPC-A, UPC-E, EAN 8, EAN 13 with 2 or 5 digit add-on  
2-Dimensional Codes: Data Matrix; MaxiCode

#### OPTIONS AND ACCESSORIES

Cutter, Real-time clock, Asian language support, External rewind, ZebraNet PrintServer II for Ethernet connectivity (internal and external), BAR-ONE® Software, Dispenser, Keyboard Display Unit (KDU)<sup>1</sup>, Memory Expansion, Liner free (LP models only), Media Guide

<sup>1</sup>EPL products only. Check for ZPL compatibility availability.

### LP/TLP 2824, LP/TLP 2844 AND TLP 3842 ONLY

#### Programming Language

EPL2™ programming language (Page Mode)  
Text and bar codes printed in 0°, 90°, 180°, 270°

Variable field support (up to 100)  
Counter support (up to 10)  
Variable field addition and subtraction  
Status reporting

Form, font, and graphics storage  
Line mode support (LP 2824 and LP 2844 only)

#### FONTS/GRAPHICS/SYBLOGIES

##### FONTS AND CHARACTER SETS (EPL Desktop Series)

Standard fonts: 5 bitmapped, expandable 8x  
Soft font storage in Flash memory

##### Bar Code Symbologies

EPL Models only: German Post Code, Japanese Postnet, Postnet

LP/TLP 2824, LP/TLP 2844: Downloadable Data Matrix and option RSS-14 (limited, truncated, stacked)

TLP 3842 only: RSS-14 (limited, truncated, stacked)

2-Dimensional Codes: MacroPDF417, QR Code (requires Asian version printer)

### LP/TLP 2824-Z, LP/TLP 2844-Z AND TLP 3844-Z ONLY

#### STANDARD FEATURES

Zebra Printer Management  
Zebra E<sup>3</sup> Printhead Energy Control

##### Zebra Printer Management

ZebraLink  
ZebraNet Utilities  
ZebraNet Bridge

#### Programming Language

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

ZBI—Controls and interprets text and data from peripherals and non-ZPL printer programming languages. Transmits captured data over LAN, WAN, or wireless network via e-mail or TCP/IP messaging.

#### FONTS/GRAPHICS/SYBLOGIES

##### FONTS AND CHARACTER SETS (ZPL Desktop Series)

Standard fonts: 16 bitmapped, 1 smooth scalable (CG Triumvirate® Bold Condensed)  
Supports user-defined fonts and graphics—including custom logos

IBM Page 850 International Characters  
Contains UFST® from Agfa Monotype Corporation.

##### Bar Code Symbologies

ZPL Models only: Code 11, Industrial 2-of-5;.ISBT 128; Logmars; MSI; RSS-14 (limited, truncated, stacked); Standard 2-of-5

2-Dimensional Codes: Codablock; Code 49; MicroPDF417; QR Code

TLP 3844-Z: 2-Dimensional RSS Composite

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