



## Zebra® R2844-Z™

RFID Printer/Encoder—Low-Volume Desktop  
Printing, 13.56 MHz Smart Labels

### **The smart choice—print and encode data using one advanced solution.**

Fulfilling the need for a compact RFID printing solution that can encode smart labels at the point of use, the R2844-Z printer/encoder is one of the most versatile in the industry! Designed for printing and encoding smart media such as wristbands and smart labels, the R2844-Z meets the needs of applications requiring greater processing speed and more connectivity choices—such as standard serial, parallel, and USB ports, and optional internal Ethernet. It also offers the widest range of supported 13.56 MHz RFID transponders, including Philips' I-Code®, Philips' EPC, TI's Tag-it®, Inside Technologies' PicoTag®, and ISO 15693 from Philips, Infineon, and Texas Instruments. Transponder sizes can range from 12 x 28 mm to 90 x 130 mm.

### **RFID from Your Desktop**

The R2844-Z features a programmable print position for flexible transponder placement. With a compact footprint, and a powerful processor that delivers faster print speed, it is the ideal solution for low-volume desktop applications. Because the R2844-Z is Flash upgradeable, new RFID protocols can be added as they are developed.

The R2844-Z RFID smart label printer/encoder provides expanded connectivity, superior performance, and the widest range of support for 13.56 MHz RFID transponders, making it ideal for applications in industries that include:

- Healthcare/Pharmaceutical
- Amusement parks/Entertainment venues
- Libraries
- Express parcel delivery



# R2844-Z



## Specifications at a Glance\*



The compact R2844-Z is ideal for low-volume printing/encoding in space-constrained areas.

### STANDARD FEATURES

- RFID smart label printing and encoding
- Direct thermal and thermal transfer printing of bar codes, text, and graphics
- OpenACCESS® design for easy media loading
- Double-walled ABS case construction
- Fully enclosed 5.0" (127 mm) media compartment
- 32 bit RISC processor
- Multi-level Element Energy Equalizer™ (E<sup>3</sup>) for superior print quality
- Auto-calibration
- Auto-switching 120 V and 240 V power supply
- Head-up sensor

### PRINTER SPECIFICATIONS

- Resolution**  
203 dpi/8 dots per mm
- Memory**  
Standard 8 MB SDRAM (4 MB available for user); 4 MB Flash (2.75 available to user)  
Optional: Up to 8 MB Flash with real-time clock (12 MB total)
- Print width**  
4.09"/104 mm
- Print length**  
39"/990 mm
- Print speed**  
Programmable print speeds of 2"/51 mm, 3"/76 mm, and 4"/102 mm per second
- Media Sensors**  
Transmissive and reflective

### MEDIA CHARACTERISTICS SMART LABELS

- Maximum label and liner length**  
39"/990 mm
- Maximum label and liner width**  
4.25"/108 mm
- Maximum roll diameter**  
5"/127 mm O.D. on a 1"/25.4 mm I.D. core
- Core diameter**  
1"/25.4 mm to 1.5"/38 mm  
Using media adaptor plates (included):  
2.0"/50.8 mm, 2.5"/63.5 mm and 3.0"/76.2 mm
- Media thickness**  
.003"/.08 mm to .0075"/.19 mm
- Media types**  
Roll-fed or fanfold, die cut or continuous direct thermal labels with or without black mark, tag stock

For optimum print quality and performance, use Genuine Zebra Supplies

### RIBBON CHARACTERISTICS

- Outside diameter**  
1.36"/35 mm
- Standard length**  
244"/74 m using .000328" ribbon thickness
- Width**  
1.30"/33 mm to 4.30"/110 mm
- Ribbon setup**  
Ribbon wound ink side out
- Core I.D.**  
0.5"/13 mm

### OPERATING CHARACTERISTICS

- Environmental**  
Operating temperature 40° F/5° C to 105° F/41° C  
Storage temperature -40° F/-40° C to 140° F/60° C  
Operating humidity 10% to 90% non-condensing R.H.  
Storage humidity 5% to 95% non-condensing R.H.
- Electrical**  
Auto-detectable (PFC Compliant) 100-240 VAC, 50-60 Hz
- Agency approvals**  
Emissions: FCC Part 15, Subpart C, C-Tick  
Emissions and Susceptibility: (CE): ETSI 300 330-2, ETSI EN 301-489-3, 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

### PHYSICAL CHARACTERISTICS

- Width: 7.9"/201 mm
- Height: 6.8"/172 mm
- Depth: 9.75"/248 mm
- Weight: 3.2 lbs/ 1.4 kg

\*Specifications subject to change without notice. ©2005 ZIH Corp., ZebraLink, ZebraDesigner, ZebraNet, Element Energy Equalizer, and all product names and numbers are Zebra trademarks, and Zebra, OpenACCESS, E<sup>3</sup>, ZebraNet, and ZPL II are registered trademarks of ZIH Corp. All rights reserved. Centronics is a registered trademark of Centronics Data Computer Corporation. CG Triumvirate is a trademark of Agfa Division, Miles Inc. IBM is a registered trademark of International Business Machines Corporation. UFST is a registered trademark of Agfa Monotype Corporation. All other trademarks are the property of their respective owners.

### RELATED PRODUCTS

- Options and Accessories**  
8 MB Flash memory with real-time clock for a total of 12 MB (10.75 MB available to user) for applications.  
Dispenser—Label peel and present with label taken sensor

### COMMUNICATION AND INTERFACE CAPABILITIES

- Centronics® parallel (36 pin) connector ports
- RS-232 serial interface
- USB v1.1

### ZEBRALINK™ SOLUTIONS

- Software**  
ZebraDesigner™ Pro  
ZebraNet™ Bridge Enterprise  
ZebraNet Utilities v 7.0  
Zebra Universal Driver
- Networking**  
ZebraNet® Print Server II (internal and external)

- 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.

### BAR CODES/SYMBOLOGIES

- Linear Bar Codes**  
Codabar, Code 11, Code 39, Code 93, Code 128, UPC-A, UPC-E, EAN-8, EAN-13, EAN-14, Industrial 2-of-5, Interleaved 2-of-5, Logmars, MSI, Plessey, Postnet, Standard 2-of-5, UPC-A and UPC-E with EAN 2 or 5 digit extensions
- 2-Dimensional**  
Codablock, Code 49, Data Matrix, MaxiCode, MicroPDF417, PDF417, PlanetCode, QR Code, RSS, TLC 39

### FONTS AND GRAPHICS

- Fonts and Character Sets**  
Standard Fonts: 16 bitmapped, 1 smooth scalable (CG Triumvirate™ Bold Condensed)  
Supports user-defined fonts and graphics—including custom logos  
IBM® Code Page 850 International Characters  
Contain UFST® from Agfa Monotype Corporation
- Graphic Features**  
Supports user-defined fonts and graphics—including custom logos



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