



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



www.rfid.zebra.com

R 2844 - 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
Zebra E³® Printhead Energy Control
Auto-calibration
Auto-switching 120 V and 240 V power supply
Head-up sensor
Zebra Printer Management

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

RELATED PRODUCTS

Options
8 MB Flash memory with real-time clock for a total of 12 MB (10.75 MB available to user) for applications.

Accessories
Dispenser—Label peel and present with label taken sensor

Software
ZebraNet® Print Server II (internal and external)

COMMUNICATION AND INTERFACE CAPABILITIES

Centronics® parallel (36 pin) connector ports
RS-232 serial interface
USB v1.1
Optional internal Ethernet (ZebraNet Print Server II)

PROGRAMMING LANGUAGES

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.

BAR CODES/SYMBOLOLOGIES

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

*Specifications subject to change without notice. ©2005 ZIH Corp., ZebraLink, ZebraNet, ZBI and all product names and numbers are Zebra trademarks, and Zebra, OpenACCESS, E³, 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.



HEADQUARTERS Zebra Technologies International, LLC **T:** +1 847 793 2600 or +1 800 423 0442 **F:** +1 847 913 8766
ADDRESS: 333 Corporate Woods Parkway, Vernon Hills, IL 60061-3109 U.S.A. **WEB:** www.zebra.com

OTHER LOCATIONS **USA:** California, Florida, Rhode Island, Wisconsin **EUROPE:** Denmark, France, Germany, Italy, Spain, United Kingdom **ASIA-PACIFIC:** Australia, China, Japan, Singapore, South Korea **LATIN AMERICA:** Argentina, Brazil, Mexico **AFRICA/MIDDLE EAST:** South Africa, United Arab Emirates



An ISO 9001 registered company
GSA#: GS-35F-0268N
©2005 ZIH Corp. Printed in U.S.A.
#13582L Rev. 2 (1/05) 10M