

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 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
- Supply chain management
- Asset tracking



Specifications at a Glance*

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
- 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 sensing sensors

Media Characteristics Smart Labels

Maximum label and liner length

39"/991 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

Zebralink™ Solutions

Software

- ZebraDesigner™ Pro
- ZebraNet™ Bridge Enterprise
- ZebraNet Utilities v 7.0
- Zebra Universal Driver

Networking Options

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

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.

Fonts and Graphics

- 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
- Supports user-defined fonts and graphics—including custom logos

Bar Code Symbolologies

- Linear: 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

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

*Specifications subject to change without notice.

©2011 ZIH Corp., ZebraLink, ZebraDesigner, ZebraNet, Element Energy Equalizer, OpenACCESS, and all product names and numbers are Zebra trademarks, and Zebra, 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 Monotype Imaging, Inc. and may be registered in certain jurisdictions. IBM is a trademark or registered trademark of International Business Machines Corporation in the United States, other countries, or both. UFST is a registered trademark of Monotype Imaging Inc. and may be registered in certain jurisdictions. All other trademarks are the property of their respective owners.



ZEBCRA

www.zebra.com

Corporate Headquarters

+1 800 423 0442

Email: inquiry4@zebra.com

Asia-Pacific Headquarters

+65 6858 0722

Email: apacchannelmarketing@zebra.com

EMEA Headquarters

+44 (0)1628 556000

Email: mseurope@zebra.com

Latin America Headquarters

+1 847 955 2283

Email: inquiry4@zebra.com

Other Locations

USA: California, Georgia, Illinois, Rhode Island, Texas, Wisconsin **Europe:** France, Germany, Italy, the Netherlands, Poland, Spain, Sweden, Turkey, United Kingdom **Asia Pacific:** Australia, China, Hong Kong, India, Japan, Malaysia, South Korea, Singapore, Thailand **Latin America:** Brazil, Florida (LA Headquarters in USA), Mexico **Africa/Middle East:** Dubai, South Africa

GSA#: GS-35F-0268N

P1040372 (5/11)