



Zebra® R2844-Z

RFID Printer/Encoder – Low-Volume Desktop Printing,
13.56MHz 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! It offers the widest range of supported 13.56MHz 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 28mm to 90 x 130mm. Designed for printing and encoding smart media such as wristbands and smart labels, the R2844-Z has a powerful processor and connectivity choices of standard serial, parallel, and USB ports, and optional internal Ethernet.



R2844-Z

Robust

Sturdy, dual-wall, high-density plastic construction ensures printers survive high-traffic environments.

Unrivalled performance in their class

- 32-bit microprocessor for fast label-processing
- Print speeds of up to 102mm per second

Ease of use

- OpenACCESS® design
- Clear media window for easy media monitoring

For further information on these products, please visit the Zebra web site at:
www.zebra.com



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Middle East: Dubai



Reliability on demand™



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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 127mm (5.0") media compartment
- 32-bit RISC processor
- Zebra E³® Printhead Energy Control
- Auto-calibration
- Auto-switching 120V and 240V power supply
- Head-up sensor

- ZebraLink™ – Real-time connectivity control solution:
 - WebView/Alert – requires optional ZebraNet® PrintServer II
 - ZBI™ – programming language interpreter for translation of foreign data streams
- ZebraNet™ Bridge

Zebra Programming Languages

- Core programming languages ZPL® & ZPL II® – universal language for Zebra printers
- ZBI – works with ZPL to control and interpret text and data streams from peripherals and non-ZPL printer programming languages. Transmits captured data over LAN or WAN via e-mail or TCP/IP messaging

Operating Characteristics

Environment

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

Electrical

- Auto-detectable (PFC-compliant) 100-240VAC; 50-60Hz

Communications and Interface Capabilities

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

Media Characteristics

Smart Labels

Maximum label and liner length
990mm (39")

Maximum label and liner width
108mm (4.25")

Maximum roll diameter
127mm (5") O.D. on a 25.4mm (1") I.D. core

Core diameter
25.4mm (1") to 38mm (1.5")
Using media adapter plates (included):
50.8mm (2"), 63.5mm (2.5"), 76.2mm (3")

Media thickness
0.08mm (0.003") to 0.19mm (0.0075")

Media types

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

Agency Approvals

- Emissions: FCC Part 15, Subpart C, C-Tick
- Emissions and Susceptibility: (CE): ETSI 300 330-2, ETSI EN301-489-3, 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

For optimum print quality and performance, use genuine Zebra supplies.

Ribbon Characteristics

Outside diameter
35mm (1.36")

Standard length
74m (244') using 0.00833mm (0.000328") ribbon thickness

Width
33mm (1.30") to 110mm (4.30")

Ribbon setup
Ribbon wound ink-side out

Core I.D.
13mm (0.5")

Fonts/Graphics/Symbologies

Fonts and Character Sets

- Standard Fonts: 16 bitmapped, 1 smooth-scalable (CG Triumvirate™ Bold Condensed)
- Supports user-defined fonts
- IBM Code Page 850 International Characters

Graphic Features

- Supports user-defined graphics – including custom logos

Bar Code 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

Options and Accessories

- 8MB flash memory with real-time clock for a total of 12MB (10.75MB available to user) for applications
- Dispenser – Label peel and present with label taken sensor
- ZebraNet Print Server II (internal and external)



R2844-Z

RFID from your desktop

The R2844-Z features a programmable print position for flexible transponder placement. With a compact footprint and powerful processor, it delivers an economic and efficient solution for low-volume RFID desktop applications. Because the R2844-Z is flash upgradable, new RFID protocols can be added as they are developed.

The compact R2844-Z is ideal for low-volume printing/encoding in space-constrained areas, such as for applications in

- Healthcare/pharmaceutical
- Amusement parks/entertainment venues
- Libraries
- Express parcel offices

R2844-Z

Maximum Print Area

Width: 104mm (4.09")
Length: 990mm (39")

Resolution

8 dots per mm (203 dpi)

Maximum Print Speed

102mm (4") per second

Memory

Standard: 8MB SDRAM
(4MB available for user);
4MB flash (2.75 available to user)

Optional: Up to 8MB flash with real-time clock (12MB total)

Physical Characteristics

Width: 201mm (7.9")
Depth: 248mm (9.75")
Height: 172mm (6.8")
Weight: 1.4kg (3.2lb)

Media Specifications

Label and liner width:
25.4mm (1") to 108mm (4.25")

*Specifications listed are for base model printers with standard features only unless otherwise noted. Specifications subject to change without notice.