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*

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
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)
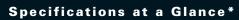
Print width
4.09"/104 mm

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

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