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

### Specifications at a Glance*

<table>
<thead>
<tr>
<th><strong>MEDIA CHARACTERISTICS</strong></th>
<th><strong>SMART LABELS</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum label and liner length</td>
<td>39’/990 mm</td>
</tr>
<tr>
<td>Maximum label and liner width</td>
<td>4.25’/108 mm</td>
</tr>
<tr>
<td>Maximum roll diameter</td>
<td>5’/127 mm O.D. on a 1’/25.4 mm I.D. core</td>
</tr>
<tr>
<td>Core diameter</td>
<td>1’/25.4 mm to 1.5’/38 mm</td>
</tr>
<tr>
<td>Using media adaptors (included):</td>
<td>2.0’/50.8 mm, 2.5’/63.5 mm and 3.0’/76.2 mm</td>
</tr>
<tr>
<td>Media thickness</td>
<td>.003’/0.08 mm to .0075’/0.19 mm</td>
</tr>
<tr>
<td>Media types</td>
<td>Roll-fed or fanfold, die cut or continuous</td>
</tr>
<tr>
<td>Direct thermal labels with or without black mark, tag stock</td>
<td></td>
</tr>
<tr>
<td>For optimum print quality and performance, use Genuine Zebra Supplies</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>RIBBON CHARACTERISTICS</strong></th>
<th><strong>Outside diameter</strong> 1.36’/35 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Standard length</strong> 244’/74 m using .000328” ribbon thickness</td>
<td><strong>Width</strong> 1.30’/33 mm to 4.30’/110 mm</td>
</tr>
<tr>
<td><strong>Ribbon setup</strong> Ribbon wound ink side out</td>
<td><strong>Core I.D.</strong> 0.5’/13 mm</td>
</tr>
</tbody>
</table>

### OPERATING CHARACTERISTICS

**Environmental**
- Operating temperature: 40ºF/5ºC to 105ºF/41ºC
- Storage temperature: -40ºF/-40ºC to 140ºF/60ºC
- 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, Auto-switching 120 V and 240 V power supply
- Auto-calibration
- Head-up sensor
- ZebraLink™—Real-time connectivity control

### 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

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

### 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.

### BAR CODES/SYMBOLOGIES

**Linear Bar Codes**

**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
- IBM Code Page 850 International Characters

**Graphic Features**
- Supports user-defined fonts and graphics—including custom logos

*Specifications subject to change without notice.*

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