

# Zebra® RZ™ Series

The Price-Performance Leaders in RFID Printing/Encoding



## RFID Industrial/Commercial Printer/Encoders

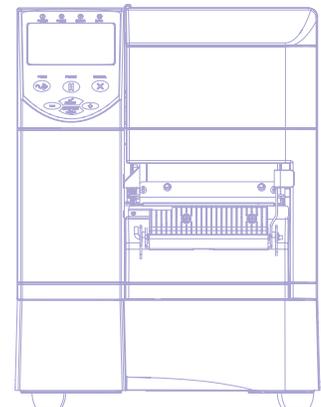
The RZ400™ and RZ600™ printer/encoders bring UHF RFID capabilities to Zebra's popular Z Series® platform and set the new standard as the price-performance leaders in meeting the needs of today's global RFID tagging compliance initiatives. These metal printer/encoders offer EPC Gen 2 support, high-speed print throughput, and rugged reliability to enhance productivity in tough environments and lower duty cycle applications.

## Better Connected for a Connected World

The RZ series RFID printer/encoders connect easily with most warehouse/manufacturing and business applications. The RZ400 and RZ600 are better connected to your network—through USB 2.0, 802.11b/g secure wireless, or Ethernet. They're better connected to your applications—with multiple RFID power settings to adjust to current and future RFID protocols, transponder designs and sizes; choice of print resolution including 300 dpi; and XML-Enabled printing as a standard feature. And they're better connected to your needs—with easy setup via a large, easy-to-read front panel that includes Asian-language support; easy loading of supplies; and easy maintenance with quick-changing printheads and platens.

The industrial/commercial RZ400 (for 4-inch smart labels) and the RZ600 (for 6-inch smart labels) have been designed for case- and pallet-level identification for companies needing to streamline logistics, supply chain management and business improvement applications including:

- Asset Tracking
- Inventory Management
- Work in Process
- Shipping/Receiving
- Distribution





## RZ400 RZ600

Combining a full and flexible set of features at an affordable price, RZ series printer/encoder provide enhanced productivity and application flexibility.

### Specifications at a Glance\*

#### STANDARD FEATURES

Integrated UHF Reader/Encoder  
 EPC Gen 2/ ISO 18000-6C  
 Full range of RFID power settings  
 RFID processes optimized for fastest label throughput  
 RFID counters keep track of the good and unusable labels  
 Variable RFID power settings for both read and write allow maximum flexibility for printing small labels  
 32 bit 133 MHz RISC processor  
 Zebra printer driver for Windows® 3.X and 95/98/NT/2000/XP/2003 operating systems  
 Advanced label/media counters  
 Print methods: Thermal transfer or direct thermal  
 Construction: Die-cast aluminum base, frame and printhead mechanism  
 Metal media cover with large clear window  
 Element Energy Equalizer™ (E<sup>3</sup>™) for superior print quality  
 Auto-calibration  
 Real-time clock  
 Auto-ranging (90–265 VAC) power supply  
 Color-coded operator cues  
 Multi-language control panel with back-lit 240 x 128 pixel display  
 ZPL II®  
 XML-Enabled printing—Direct-connect integration for bar code label printing that eliminates license fees and print server hardware, and lowers customization and programming costs

#### PRINTER SPECIFICATIONS

**Resolution**  
 203 dpi/8 dots per mm; 300 dpi/12 dots per mm; 600 dpi/24 dots per mm (RZ400 only)

**Memory**  
 Standard: 8 MB Flash, 16 MB DRAM  
 Optional: Factory Installed 64 MB Flash

**Print Width**  
 RZ400: 4.09"/104 mm  
 RZ600: 6.6"/168 mm

**Print Length**  
 RZ400: with 203 dpi: 157"/3,988 mm; with 300 dpi 73"/1,854 mm;  
 RZ600: with 203 dpi: 102"/2,590 mm; with 300 dpi 45"/1,143 mm

**Print Speed**  
 203 dpi: 10"/254 mm per second;  
 300 dpi: 8"/203 mm per second;

**Media Sensors**  
 Fixed reflective sensor  
 Adjustable transmissive sensor

#### MEDIA CHARACTERISTICS

**Maximum label and liner length**  
 Maximum non-continuous: 39"/991 mm

**Maximum label and liner width**  
 RZ400: 4.5"/114 mm  
 RZ600: 7.0"/178 mm

**Maximum roll diameter**  
 8.0"/203 mm

**Core diameter**  
 3"/76 mm

**Media thickness**  
 0.0023"/0.058 mm to 0.010"/.25 mm

**Media types**  
 Continuous, die-cut, tags, black-mark

#### RIBBON CHARACTERISTICS

**Outside diameter**  
 3.2"/81.3 mm

**Standard length**  
 984/300 m or 1476/450 m

**Ratio**  
 3:1 media roll to ribbon.  
 Ribbon must be at least as wide as media

**Width**  
 RZ400: 2.00"/51 mm to 4.33"/110 mm  
 RZ600: 2.00"/51 mm to 6.85"/174 mm

**Ribbon setup**  
 Ribbon wound ink-side out (ribbon wound ink-side in can be used with optional ribbon spindle on RZ400)

**Core I.D.**  
 1.0"/25.4 mm

#### OPERATING CHARACTERISTICS

**Environmental**  
 Operating temperature:  
 32° F/0° C to 104° F/40° C (Direct Thermal)  
 40° F/5° C to 104° F/40° C (Thermal Transfer)  
 Storage temperature: -40° F/-40° C to 140° F/60° C  
 Operating humidity: 20-85% non-condensing  
 Storage humidity: 5-85% non-condensing

**Electrical**  
 Universal auto-ranging (PFC-compliant) power supply 90-265 VAC; 48-62Hz

**Agency Approvals**  
 FCC subpart B & C, IC RSS 210, IEC 60950-1, EN 300 220, EN 55022 Class B, EN55024, EN 61000-3-2, EN 61000-3-3.  
 Markings: cTUVus, CE, FCC-B, ICES-003, C-Tick

#### PHYSICAL CHARACTERISTICS

Width: 10.9"/278 mm  
 Height: 13.3"/338 mm  
 Depth: 18.7"/475 mm  
 Weight: 32.4 lbs/15 kg  
 Shipping weight: 49 lbs/22 kg

#### ZEBRALINK™ SOLUTIONS

**Software**  
 ZebraDesigner™ Pro  
 ZebraDesigner for XML  
 ZebraDesigner Label Design Software  
 ZebraNet™ Bridge Enterprise  
 ZebraNet Utilities v 7.0  
 Zebra Universal Driver  
 ZBI-Developer™  
 Additional scalable and bitmapped fonts available

**Networking/Connectivity**  
 ZebraNet® Internal Wireless Plus  
 ZebraNet Wireless Plus  
 ZebraNet 10/100 Print Server  
 RS-232C serial port  
 High-speed, IEEE1284, bi-directional parallel interface  
 USB 2.0

**Firmware**  
 ZPL II®  
 XML-Enabled Printing  
 Web View  
 Alert  
 ZBI 2.0™

#### FONTS/GRAPHICS/SYMBOLOGIES

**Fonts and Character Sets**  
 7 bitmapped, 1 smooth scalable  
 Native open type font support  
 Global Printing—Unicode™ compliant  
 Contains UFST® from Monotype Imaging Inc.

**Graphic Features**  
 Supports user-defined fonts and graphics—including custom logos  
 ZPL II drawing commands—for boxes and lines

**Bar Code Symbolologies**  
 Linear Bar Codes: Code 11, Code16k, Code 39, Code 93, Code 128 with subsets A/B/C and UCC Case C Codes, UPC-A, UPC-E, EAN-8, EAN-13, UPC and EAN 2 or 5 digit extensions, Plessey, Postnet, Standard 2-of-5, Industrial 2-of-5, Interleaved 2-of-5, Logmars, MSI, Codabar, Planet Code  
 2-Dimensional: Codablock, PDF417, Code 49, Data Matrix, MaxiCode, QR Code, MicroPDF417, TLC 39, GS1 DataBar (RSS), Aztec

#### OPTIONS AND ACCESSORIES

Factory installed 64 MB Flash memory option  
 Cutter with catch tray  
 Peel—a front mount, passive peel option with no liner take-up  
 Liner take-up (works with peel option)—full roll liner take-up spindle (fits standard base, RZ400 only)  
 Rewind—internally rewinds full label roll on 3" core (comes with taller, non-standard printer base)  
 RS-422/485 serial port adapter  
 Optional ribbon spindle to support ribbon wound ink-side in (RZ400 only)

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For optimal printing quality and proper printer performance across our product line, Zebra strongly recommends the use of genuine Zebra supplies as part of the total solution. Specifically, the RZ400 and RZ600 are designed to work only with genuine Zebra™ printheads, thus maximizing safety and print quality.



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