Zebra® RZ™ Series RFID Printer/Encoders

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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 RFID smart labeling. Newly enhanced, they can print/encode small labels for today's closed-loop item-level tracking applications, as well as help meet global RFID tagging compliance initiatives. These metal printer/encoders offer EPC UHF Gen 2, Class 1 support; high-speed print throughput; and rugged reliability to enhance productivity in tough environments.

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.

Ideal for These Applications

The industrial/commercial RZ400 (for smart labels up to 4 inches) and the RZ600 (for up to 6-inch smart labels) have been designed for item-, case- and pallet-level identification. Streamline business-improvement and supply-chain management applications such as:

Item-level tracking for package verification, work in process, product authentication, document tracking and more

Asset Tracking

Inventory Management

Shipping/Receiving

Distribution

SPECIFICATIONS AT A GLANCE*

Printer Name

RZ400
RZ600

Standard Features

- Integrated UHF Reader/Encoder
- EPC Gen 2 Class 1/ ISO 18000-6C
- Supports wide range of transponder placements beginning at 15 mm
- 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™ (E3™) 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

Printer Specifications

Resolution

- 203 dpi/8 dots per mm
- 300 dpi/12 dots per mm
- 600 dpi/23.5 dots per mm (RZ400 only)

Memory

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

Maximum Print Width

- RZ400: 4.09"/104 mm
- RZ600: 6.6"/168 mm

Maximum Print Length

- RZ400: 157"/3,988 mm (203 dpi); 73"/1,854 mm (300 dpi)
- RZ600: 102"/2,590 mm (203 dpi); 45"/1,143 mm (300 dpi)

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 OD on a 3"/76 mm ID core

Media Thickness

0.0023"/0.058 mm to 0.010"/0.25 mm

Media Types

Continuous, die-cut, tags, black mark

Ribbon Characteristics

- Outside Diameter: 3.2"/81.3 mm OD on a 1.0"/25.4 mm ID core
- 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)

Operating Characteristics

Environment**

- 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, CNC, SUBTEL, CCC, SRRC, WPC, KCC, NOM-NYCE, COFETEL, SIRIM, OFTA, MTC, iDA, NCC, NTC

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™

Networking/Connectivity

- ZebraNet Wireless Plus Print Server
- 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

Barcode Symbologies

- Linear Barcodes: 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)

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.

Corporate Headquarters
+1 800 423 0442
inquiry4@zebra.com

Asia-Pacific Headquarters
+65 6858 0722
apacchannelmarketing@zebra.com

EMEA Headquarters
+44 (0)1628 556000
mseurope@zebra.com

Latin America Headquarters
+1 847 955 2283
inquiry4@zebra.com

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*Specifications subject to change without notice.

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