Zebra® RZ™ Series
RFID Printer/Encoders

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® 3.1 and Windows® 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 reflector 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”/2,000 m or 1476”/450 m
- Ratio: 3:1 media roll to ribbon. Ribbon must be at least as wide as media.
- Width:
  - RZ400: 2.0”/51 mm to 4.33”/110 mm
  - RZ600: 2.0”/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: 32º F/0º C to 104º F/40º C (Direct Thermal); 20º F/–5º C to 104º F/40º C (Thermal Transfer)
  - Storage temperature: -40º F/–40º C to 140º F/60º C (Direct Thermal), 40º F/5º C to 104º F/40º C (Thermal Transfer)
  - 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 39, ETSI EN 300328
- ROHS, CE, REACH
- EAC, CCC, C-Tick, MIC, KC, VCCI
- EAC, CCC, BIS, PSE, C-Tick, MIC, KCC, KOSHEC, CS, CCC, EAC
- FCC part 15, Title 47 CFR, Class B, IC RSS-210
- EN 55022, EN 55024, EN 61000-3-2, EN 61000-3-3
- UL 60950-1
- IEC 60950-1
- 7 bit, 8 bit, 16 bit

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
- 2-Dimensional: Codablock, PDF417, Code 49, 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.

*Specifications subject to change without notice.
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