Zebra® RZ™ Series

The Price-Performance Leaders in RFID Printing/Encoding

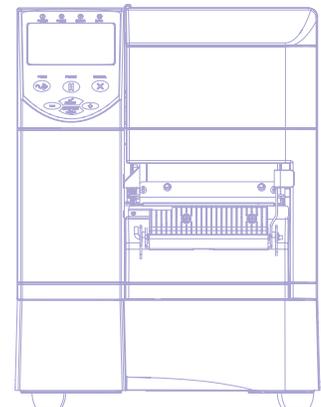## RFID Industrial/Commercial Printer/Encoders

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™ (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—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:
32º F/0º C to 104º F/40º C (Direct Thermal)
40º F/5º C to 104º F/40º C (Thermal Transfer)
Storage temperature: -40º F/-40º C to 140º F/60º 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 Symbologies
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)