

The R402's RFID capabilities make it perfect for smart label applications in industries including:

- Healthcare/Pharmaceutical
- Asset control and security systems
- Inventory control
- Low-volume manufacturing
- Videotape or book libraries
- Amusement parks

Zebra® R402™

RFID, Smart Label Desktop Printer and Encoder

The Smart Choice—print and encode data using one advanced solution.

Fulfilling the need for a versatile, compact RFID printing solution, Zebra's R402 desktop printer/encoder is an industry first! The easy-to-use and robust R402 reads, writes, and prints 13.56 MHz smart labels, tickets, tags, and wristbands carrying embedded, ultra-thin RFID transponders. Smart media is re-programmable and can be read or written to without a direct line of sight. Use Zebra's R402 and RFID technology in your business to increase data flow, throughput and automation while reducing data inaccuracy and operator error.

RFID from Your Desktop

The R402 is the most versatile smart printer/encoder in the industry, supporting a wide variety of transponder types and sizes. Additionally, it has the ability to program the position for transponder encoding, which enables placement of transponders in a wider variety of areas on smart media and leads to greater application flexibility. The R402 is big on innovation, yet it features the smallest footprint of any RFID label printer.



R402™



Waterpark patrons have a splash wearing RFID wristbands printed on a Zebra R402. These waterproof, wearable RFID bands are more convenient than tickets. They make it easy for visitors to make purchases at concession stands and for park owners to collect valuable marketing information.

MAXIMUM PRINT AREA

Width: 4.09 "/104 mm

Length: 22"/1559 mm (with standard memory)

RESOLUTION

203 dpi/8 dots per mm

MAXIMUM PRINT SPEED

4"/102 mm per second

MEMORY

Standard: 2 MB Flash; 2 MB DRAM Optional: up to 8 MB Flash

PHYSICAL CHARACTERISTICS

Width: 7.8"/198 mm Depth: 9.4"/239 mm Height: 6.8"/173 mm

Weight: 3.6 lbs./1.6 kg (without media) Shipping weight: 9.8 lbs (4.44 kg)

MEDIA SPECIFICATIONS

Label and liner width:

1"/25.4 mm to 4.25"/108 mm

*Specifications listed are for base model printers with standard features only unless otherwise noted. Specifications subject to change without notice. All product and brand names are trademarks of their respective companies. All rights reserved.



STANDARD FEATURES

Reads, writes, and prints RFID smart media Supported transponders: ISO 15693 standard**, Texas Instruments Tag-It™, Philips I•Code™, and Inside Technologies PicoTag®

Print methods: Thermal transfer or direct thermal Construction: Double-walled ABS plastic 2 MB Flash memory; 2 MB DRAM

32 bit RISC processor

Auto-calibration

Transmissive and reflective media sensors Single-level Element Energy Equalizer (E3)® for superior print quality

**Note: The R402 may not be compatible with all ISO 15693 tag types; contact Zebra for a list of supported tags. Other 13.56 MHz tag types may be available on request.

Zebra Programming Languages

ZPL® or ZPL II®—Universal language for Zebra printers. Simplifies label formatting and enables compatibility with other Zebra printers.

ZBI™ (Zebra BASIC Interpreter™)—Controls and interprets text and data streams from peripherals and non-ZPL printer programming languages. Transmits captured data over LAN, WAN, or wireless network via e-mail or TCP/IP messaging.

OPERATING CHARACTERISTICS

RFID Operating Frequency: 13.56 MHz

Environment

Operating Temp. 40° F/5° C to 104° F/40° C Storage/Transport Environ. -40° F/-40° C to

Operating Humidity 10-90% non-condensing Storage Humidity 5-95% non-condensing

Auto-detectable (PFC Compliant) 100-240 VAC; 50-60 Hz

Communication Interface Capabilities

Centronics® Parallel (36 Pin) connector ports Optional ZebraNet® PrintServer II Ethernet connection

Agency Approvals

Emissions/Susceptibility: FCC 15.225; FCC Part 15 Class B; RSS-210; EN300-330; EN300-683; IECS-003; EN61000-3-2; EN61000-3-3

Safety: UL 1950 Third Edition; CAN/CSA-C22.2 No. 950-95 Third Edition; IEC 950/EN60950

SMART MEDIA CHARACTERISTICS

Smart Labels (Tags, Tickets, Wristbands)

Max. Roll Size: 5"/127 mm O.D. on a 1"/25.4 mm or 1.5"/38 mm I.D. core

Thickness (label & liner, excluding IC Chip): .003"/.08 mm to .0075"/.19 mm

Media Types: Roll-fed or fan-fold, die-cut or continuous thermal labels with or without black mark; tag stock, tickets, wristbands

Ribbon is recommended to be at least as wide as

Maximum Roll Size: 1.36"/35 mm O.D. on a

.5"/13 mm core

Ribbon Width: 1.3"/33 mm to 4.3"/110 mm

Ribbon Thickness: .000328"

Standard Lengths: 244'/74 m; provides 1:1 media

roll-to-ribbon ratio

Ribbon Setup: Ribbon wound ink side out

Note: For optimum print quality and print engine performance, use Genuine Zebra® Smart Labels and Ribbon, as well as a notched ribbon core.

(See R402 Printer Specifications sheet for regular media specifications)

FONTS/GRAPHICS/SYMBOLOGIES

Fonts and Character Sets

Standard Fonts: 16 bitmapped, 1 smooth scalable (CG Triumvirate™ Bold Condensed)

Sets: IBM® Code Page 850 international character

Optional European and Asian fonts

Graphic Features

Supports user-defined fonts and graphics including custom logos

ZPL II drawing commands—including boxes and lines

Bar Code Symbologies

Linear Bar Codes: Code 11, Code 39, Code 93, Code 128, UPC-A, UPC-E, EAN-8, EAN-13, EAN-14. UPC-A and UPC-E with EAN 2 or 5 digit extensions, Plessey, Postnet, Standard 2-of-5, Industrial 2-of-5, Interleaved 2-of-5, Logmars, MSI, Codabar

2-Dimensional: Codablock, PDF417, Code 49, Data Matrix, MaxiCode, QR Code, MicroPDF417

OPTIONS AND ACCESSORIES

8 MB Flash expansion with real-time clock Dispenser

Media adapter plates (for media cores from 1.5" to 3" I.D.)

ZebraNet PrintServer II (parallel connection only)

ZebraLink™ connectivity European and Asian fonts

BAR-ONE® software



HEADQUARTERS

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