Zebra® R-140™

RFID, Smart Label Printer and Encoder

A smarter, more advanced printer.

Zebra's innovative R-140 can read, write, and print 13.56 MHz smart labels carrying embedded ultra-thin RFID transponders. Transponders contain integrated circuits that can be read, programmed and re-programmed without a direct line of sight using non-contact radio waves. This revolutionary technology enables you to change and update data repeatedly throughout the life of an RFID smart label. Use Zebra's R-140 technology in your business to increase data flow and automation while reducing data inaccuracy and operator error.

Brains and Brawn

This rugged 12-gauge, steel-constructed printer is one of the fastest, printing at up to 12 inches per second. Based on Zebra's award-winning *Xi*III*Plus*™ printers, the R-140 also features ZebraLink™ for active Alert status messaging, Web-based control, and programming flexibility.

Test drive a R-140 with ZebraLink today at www.zebra.com/livelink!

R-140's RFID capabilities make it perfect for manufacturing, ware-housing, and distribution activities as well as a variety of applications including:

- Supply chain management

- Inventory control

- Book, videotape, and X-ray film libraries

- Package and cargo tracking

- Reusable container tracking

- Work in process

- Access control and security systems

- Capital asset labeling/tracking

Zebra

Connect with it. Count on it.™

R-140 ™

Specifications at a Glance*

Smart labels printed by Zebra's innovative R-140 makes inventorying library books incredibly easy. With smart labels affixed to the inside covers, books can be inventoried without removing them from shelves. RFID can even alert library personnel when a book has been misplaced, increasing inventory accuracy and reader satisfaction.

MAXIMUM PRINT AREA
Width: 5.04"/128 mm
Length: 39"/991 mm (with standard memory)

RESOLUTION
203 dpi/8 dots per mm

MAXIMUM PRINT SPEED
12"/305 mm per second

MEMORY
1.5 MB Flash, 4 MB DRAM

PHYSICAL CHARACTERISTICS
Width: 11.15"/283.2 mm
Depth: 19.5"/495 mm
Height: 15.5"/393.7 mm
Weight: 55 lbs./25 kg

RFID SMART MEDIA SPECIFICATIONS
Label and liner width: 1.57"/40 mm to 5.51"/140 mm
Ribbon width: 1.57"/40 mm to 5.1"/130 mm

(See R-140 Printer Specifications sheet for regular media specifications)

*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 labels
Supported transponders: Texas Instruments Tag-It™ and Philips I•Code™
Print Methods: Thermal transfer or direct thermal
Construction: 12-gauge steel frame
Multilingual backlit LCD display
PCMCIA socket
32-bit RISC and CISC processors
Transmissive and reflective media sensors
Multi-level Element Energy Equalizer (E^3®) for superior print quality

Programming Languages
ZPL II® —Universal language for Zebra® printers. Simplifies label formatting and enables compatibility with other Zebra printers.
ZBI™—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

Environment
Operating Temp. (tt) 41° F/5° C to 104° F/40° C
Operating Temp. (dt) 32° F/0° C to 104° F/40° C
Storage/Transport Environ. -40° F/-40° C to 140° F/60° C
Operating Humidity 20-85% non-condensing
Storage Humidity 5-85% non-condensing

Electrical
Universal power supply with power-factor correction 90-264 VAC; 48-62 Hz

Communication Interface Capabilities
RS-232C/422/485 multi-drop
Hi-speed, bi-directional, IEEE 1284 parallel interface
Optional ZebraNet PrintServer II Ethernet Connection

Agency Approvals
Bi-National UL 60950 Third Edition/CSA CAN/CSA-C22.2 No. 60950-00 Third Edition; IEC 950/EN60950: 1992 w/amendments 1 through 4 (CB Scheme); EN55022: 1998 Class B; EN55024: 1998; EN61000-3-2, 3 w/amendment A12; Canadian ICES-003, Class B, FCC Class B; Argentina 92/98 Phase 3; Australia AS/NZS 3548; R.O.C. CNS 13438; VCCI
GSA: GS-35F-0268N

▶ SMART MEDIA CHARACTERISTICS

Smart Labels
Max. Roll Size: 7"/178 mm O.D. on a 4"/102 mm I.D. core

Thickness (label & liner, excluding IC Chip): .003"/.076 mm to .012"/.305 mm
Media Type: Continuous, die-cut or black mark
For optimum print quality and printer performance, use Genuine Zebra Smart Labels and Ribbon.
(See R-140 Printer Specifications sheet for regular media specifications)

Ribbon Specifications
Max. Roll Size: 3.2"/81.3 mm O.D. on a 1"/25.4 mm I.D. core
Standard Lengths: 1,476'/450 m or 984'/300 m; provides 3:1 & 2:1 media roll-to-ribbon ratios
Ribbon Setup: Ribbon wound ink side out

▶ FONTS/GRAPHICS/SYMBOLOGIES

Fonts and Character Sets
Standard Fonts: 7 bitmapped, 1 smooth scalable (CG Triumvirate™ Bold Condensed)
Sets: IBM® Code Page 850 International character set

Graphic Features
Supports user-defined fonts and graphics—including custom logos

Bar Code Symbologies
Linear Bar Codes: Code 11, Code 39, Code 93, Code 128 with subsets A/B/C and UCC Case C Codes, ISBT-128, UPC-A, UPC-E, EAN-8, EAN-13, UPC and EAN 2 or 5 digital 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

▶ OPTIONS AND ACCESSORIES

Rewind
Bi-fold media door with clear panel
8 MB DRAM expansion
Advanced media/label counter
Real-time clock with applicator interface
Label peel
Cutter
Scalable and international fonts
8 MB PC card
Applicator interface
IBM twinax interface
IBM coax interface
ZebraNet® PrintServer II
BAR-ONE® software
40 mm core media supply spindle
ZebraNet Wireless Card Socket (contact Zebra for availability)