R-140™

RFID, Smart Label Printer and Encoder

A smarter, more advanced printer.

Zebra's innovative R-140 can read, write and print labels carrying embedded ultra-thin RFID transponders. Transponders contain integrated circuits that can be read, programmed and re-programmed using non-contact radio waves. This revolutionary technology enables you to change and update data repeatedly throughout the life of an RFID "smart" label.

Brains and Brawn

This rugged 12-gauge, steel-constructed printer is one of the fastest, printing at up to 12 ips. Based on Zebra's award-winning *XI*II printers, the R-140 also features ZebraLink™ for active alert messaging, Web-based control, and programming flexibility.

Connect with it. Count on it.™

R-140™

Left
Standard media door with clear panel

Right
Optional bi-fold media door with clear panel

Picture represents door option only. Model shown is a 90*XI*II printer and is not an accurate model for the R-140, which is based on the wider 140*XI*II.

For more information
Contact your Zebra representative for additional printer specifications. For information on Zebra's other printers, supplies, software and accessories, ask your reseller, call +1 800.423.0442, or visit our Web site.

www.zebra.com

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Other Locations

United States: California, Florida, Rhode Island, Wisconsin
Europe: France, Germany, Italy, United Kingdom
Asia-Pacific: Australia, China, Japan, Singapore, South Korea

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) 41ºF/5ºC to 104ºF/40ºC
- Operating Temp. (dt) 32ºF/0ºC to 104ºF/40ºC
- Storage/Transport Environ. -40ºF/-40ºC to 140ºF/60ºC
- 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

Smart Media Characteristics

Smart Labels

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

Thickness (label & liner, excluding IC Chip)
- .003"/.076mm to .012"/.305mm

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"/81.3mm O.D. on a 1"/25.4mm I.D. core

Standard Lengths
- 1,476'/450m or 984'/300m: 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, PDF-417, Code 49, DataMatrix, Maxi Code, QR Code, Micro PDF, TLC 39

Options and Accessories

- Rewind
- Bi-fold media door with clear panel
- 8MB DRAM expansion
- Advanced media/label counter
- Real time clock with applicator interface
- Label peel
- Cutter
- Scalable and international fonts

- 8MB PC card
- Applicator interface
- IBM Twinax interface
- IBM Coax interface
- ZebraNet® PrintServer II
- BAR-ONE® software
- 40mm core media supply spindle
- ZebraNet Wireless Card Socket (contact Zebra for availability)

BSI REGISTERED FIRM
FM-32328
An ISO 9001 registered company

R-140

R-140's RFID capabilities make it perfect for manufacturing, warehousing, 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

Working in a rugged environment? Because RFID technology utilizes radio waves, smart labels can be read through dirt, paint, and many non-metallic objects. RFID smart labels feature anti-collision technology, which allows you to scan and identify several objects simultaneously, such as totes of supplies.

ZebraLink™

ZebraLink, a revolutionary real-time connectivity and control solution for Zebra printers, includes:

1. *Alert* (with ZebraNet® PrintServer II)—enables a Zebra printer to send unsolicited status messages via email–enabled devices.

2. *WebView* (with ZebraNet PrintServer II)—enables the remote monitoring and configuration capability of Zebra printers using Web-based network tools.

3. *ZBI™* (Zebra BASIC Interpreter)—programming language that works with ZPL II to control and interpret with incoming text and data.

With ZebraLink, create stand-alone applications using an R-140 and peripheral devices without needing a PC host. Internet-aware, ZBI can then transmit data captured by these devices over your LAN, WAN, or wireless network via e-mail or TCP/IP messaging.

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

Maximum Print Area
Width: 5.04"/128mm
Length:
39"/991mm (with standard memory)

Resolution
203dpi/8dots per mm

Maximum Print Speed
12"/305mm per second

Memory
1.5MB Flash, 4MB DRAM

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

RFID Smart Media Specifications
Label and liner width:
1.57"/40mm to 5.51"/140mm
Ribbon width:
1.57"/40mm to 5.1"/130mm

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