R-140™

RFID, Smart Label Printer and Encoder

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*III printer and is not an accurate model for the R-140, which is based on the wider 140*Xi*III.

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*III printers, the R-140 also features ZebraLink™ for active alert messaging, Web-based control, and programming flexibility.

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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

Connect with it. Count on it.™

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

*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.

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

R-140

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.

ZebraLink™

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)

Barcodes Inc. is a leading provider of barcode, mobile computing and RFID solutions. Headquartered in Chicago, we have been in business since 1994. We have experienced rapid growth every year, thanks to our focus on the customer and our flexible, solution-oriented approach to our customers' needs. We are product experts with deep experience in field mobility, healthcare, retail and warehouse application solutions. We proudly work with over two-thirds of the Fortune 500 list as well as thousands of small and medium-sized businesses.

Dedicated Account Team

A typical Account Team consists of an Account Manager, an onsite Systems Integrator, plus technical resources in specialty areas like Enterprise Mobility, POS systems or Wireless equipment. An Account Manager is the Primary Point of Contact for your business. Your Account Manager makes it a priority to get to know you, your company and all your needs.

Technical Advice and Solution Expertise

We have deep experience installing and supporting data collection and mobility systems for clients in multiple industries and in government. Our Account Managers are industry experts with superior experience in project management. They work hard to understand your business so they can work with our technical experts to make effective recommendations. They will see your project through from the initial solution to implementation and beyond.

Logistical Excellence

Priority orders are completed within minutes and ship the same day. 99.9% of all orders ship on time. We utilize a network of warehouses across the U.S. to ensure that you get what you need, when you need it.

Online resources

Our online resources are intended to make your job easy. We offer secure online ordering, detailed product information, industry news, specials, chat and account management tools, so you can always get the information you need.

Incredible Value and the Broadest Product Offering Available

Our purchasing power means big savings for you. In addition, we are an authorized value-added reseller for all of the trusted manufacturers in the industry and a premier partner of all of the top brands. This access allows us to offer the broadest product offering, excellent prices and the product support you deserve.

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