



Zebra® R4Mplus for EPC Class 1 Tags

RFID Smart Label Printer/Encoder

RFID. Bar Coding. We've Got You Covered.

Zebra's R4Mplus builds on Zebra's rich heritage as a leader in on-demand bar code compliance labeling solutions and as the pioneer of the first radio frequency identification (RFID) smart label printer/encoder on the market. The latest addition to Zebra's "R" series of on-demand printer/encoders, the R4Mplus helps you to comply with the RFID supply chain requirements of major retailers and government agencies as it also enhances efficiencies within your own company. Plus, the R4Mplus is designed to support Electronic Product Code (EPC™) RFID standards as they develop—making it an ideal solution as you move forward in your RFID initiatives.

Flexible and Reliable

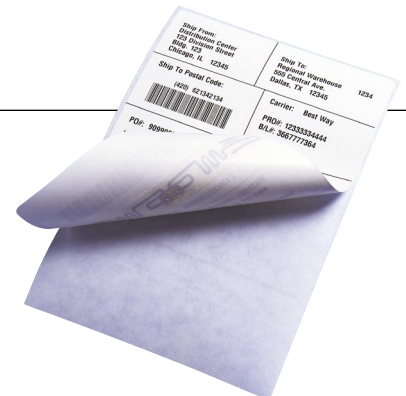
The R4Mplus supports encoding of ultra-high-frequency (UHF) transponders from Alien Technology. UHF transponders are perfect for tagging pallets, cartons, and cases throughout the supply chain because their long read ranges allow for unattended batch reading. Count on the R4Mplus with die-cast metal construction for dependable performance in your distribution center or warehouse environment.

Durable, reliable, and flexible, the R4Mplus helps to streamline the supply chain and improve logistics by bringing the benefits of pallet- and case-level identification and tracking to applications such as:

- Inventory management
- Asset tracking
- Distribution
- Shipping/Receiving
- Supply chain management



www.rfid.zebra.com



R4Mplus



Specifications at a Glance*



Confidently advance your EPC RFID compliance and business improvement initiatives with the UHF R4Mplus.

STANDARD FEATURES

Print methods: Thermal transfer or direct thermal
Construction: Die-cast aluminum base, frame and printhead mechanism
ZebraLink™
Metal media cover with large clear window
Zebra E³™ Printhead Energy Control
Auto-calibration
Real-time clock
Auto-ranging (110 V–220 V) power supply
Color-coded operator cues
Back-lit LCD control panel

PRINTER SPECIFICATIONS

Resolution

203 dpi/8 dots per mm

Memory

Standard: 2 MB Flash, 8 MB DRAM

Optional:

Up to 32 MB additional linear Flash via PCMCIA
Up to 256 MB additional ATA format via PCMCIA or CompactFlash cards

Print Width

Width: 4.09"/104 mm

Print Length

Length: 165"/4,202 mm

Print Speed

10"/254 mm per second

Media Sensors

Transmissive

*Specifications subject to change without notice.

©2004 ZIH Corp. ZebraLink, E³, ZBI and all product names and numbers are Zebra trademarks, and Zebra, the Zebra logo, ZebraNet, BAR-ONE, ZPL and ZPL II are registered trademarks of ZIH Corp. All rights reserved. CG Triumvirate is a trademark of Agfa Division, Miles Inc. All other trademarks are the property of their respective owners.

MEDIA CHARACTERISTICS

Smart Labels

Maximum label and liner length
39"/991 mm

Maximum label and liner width
4.50"/114 mm Tear/Cutter; 4.25"/108 mm
Peel/Rewind

Maximum roll diameter
8"/203 mm O.D. on a 3"/76 mm I.D. core

Core diameter
3"/76 mm

Media thickness
.0023"/.058 mm to .01"/.25 mm

Media types
Continuous or fanfold, die-cut, notched, tag stock, perforated
For optimum print quality and performance, use Genuine Zebra Supplies.

Supported Transponder Types
EPC UHF Class 1 (draft specification)
Alien Technology

RIBBON CHARACTERISTICS

Outside diameter
3.2"/81.3 mm

Standard length
1476'/450 m

Ratio
3:1

Width
2.0"/51 mm to 4.33"/110 mm

Ribbon setup
Ribbon wound ink side out

Core I.D.
1"/25.4 mm

OPERATING CHARACTERISTICS

Environmental

Operating temperature
32° F/0° C to 104° F/40° C (Direct Thermal);
40° F/5° C to 104° F/40° C (Thermal Transfer)
Storage temperature -40° F/-40° C to 140° F/60° C
Operating humidity 20-85% non-condensing
Storage humidity 5-85% non-condensing

Electrical

Universal auto-ranging (PFC-compliant) power supply 90-265 VAC; 48-62 Hz; 5A fused

Agency approvals
cULus, FCC-B

PHYSICAL CHARACTERISTICS

Width: 10.93"/278 mm
Height: 13.32"/338 mm
Depth: 18.69"/475 mm
Weight: 32.4 lb/15 kg
Shipping weight: 49 lb/22 kg

RELATED PRODUCTS

Options

Standard Memory: 2 MB Flash, 8 MB DRAM
Optional Memory:
-Up to 32 MB additional linear Flash via PCMCIA
-Up to 256 MB additional ATA format via PCMCIA or CompactFlash cards
Memory socket board option
Adjustable transmissive sensor
European and Asian font sets

Connectivity

RS-422/485 serial port adapter

Software

ZebraNet® PrintServer II (internal or external)
BAR-ONE® 6.04 software

COMMUNICATION AND INTERFACE CAPABILITIES

RS-232C serial port
High-speed, IEEE1284, bi-directional parallel interface
ZebraNet PrintServer II (internal or external)

PROGRAMMING LANGUAGES

Core programming languages ZPL® & ZPL II®—universal language for Zebra printers
ZBI™—works with ZPL to control and interpret text and data streams from peripherals and non-ZPL printer programming languages. Transmits captured data over LAN or WAN via e-mail or TCP/IP messaging.

BAR CODES/SYMBOLOLOGIES

Linear Bar Codes

Code 11, 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, RSS

2-Dimensional

Codablock, PDF417, Code 49, Data Matrix, MaxiCode, QR Code, Micro PDF417, TLC 39, RSS

FONTS AND GRAPHICS

Fonts

7 bitmapped, 1 smooth scalable (CG Triumvirate™ Bold Condensed)

Sets: International character sets supporting the following code pages: IBM® Code Page 850
International character set

Optional European and Asian font sets

Graphic Features

Supports user-defined fonts and graphics—including custom logos
ZPL II drawing commands—including boxes and lines



HEADQUARTERS

Zebra Technologies International, LLC **T:** +1 847 793 2600 or +1 800 423 0442 **F:** +1 847 913 8766
ADDRESS: 333 Corporate Woods Parkway, Vernon Hills, IL 60061-3109 U.S.A. **WEB:** www.zebra.com

OTHER LOCATIONS

USA: California, Florida, Rhode Island, Wisconsin **EUROPE:** Denmark, France, Germany, Italy, South Africa, United Kingdom **ASIA-PACIFIC:** Australia, China, Japan, Singapore, South Korea **LATIN AMERICA:** Argentina, Brazil, Mexico **MIDDLE EAST:** United Arab Emirates



An ISO 9001 registered company
GSA#: GS-35F-0268N
©2004 ZIH Corp. Printed in U.S.A.
#13544L (1/04) 10M