



## 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](http://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.  
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#### 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/SYMBOLOGIES

##### 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

