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**

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
- ZebrLink™
- Metal media cover with large clear window
- Zebra E™ 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

**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**
- **Environnmental**
  - Operating temperature: 32º F/0º C to 104º F/40º C (Direct Thermal); 40º F/5º C to 104º F/40º C (Thermal Transfer)
  - Storage temperature: -40º F/-40º C to 140º F/60º 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

**COMMUNICATION AND INTERFACE CAPABILITIES**
- RS-422/485 serial port adapter
- Software:
  - Zebranet® PrintServer II (internal or external)
  - BAR-ONE® 6.04 software

**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
- 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**
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**OTHER LOCATIONS**
USA: California, Florida, Rhode Island, Wisconsin
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Middle East: United Arab Emirates