



Zebra® R4Mplus™

RFID Printer/Encoder
for EPC Class 1 Tags

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

The 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. One of 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 with your RFID initiatives.

Flexible and Reliable

Able to support ultra-high-frequency (UHF) Class 1 transponders from Alien Technology, the R4Mplus offers unique flexibility by providing both "read and write" and "read only" options. 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.

With support for EPC UHF Class 1 tags, the R4Mplus printer/encoders are perfect for pilots, field tests, and demonstration projects for:

- 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 for Class 1 tags.

STANDARD FEATURES

Integrated UHF RFID reader/encoder for EPC Class 1 (Alien) tags
Print methods: Thermal transfer or direct thermal
Construction: Die-cast aluminum base, frame and printhead mechanism
Zebra Printer Management
Metal media cover with large clear window
Zebra E³ Printhead Energy Control
Auto-calibration
Adjustable transmissive sensor
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: 4 MB Flash, 2 MB user available, 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 (64-bit memory)

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

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RELATED PRODUCTS

Options

Standard Memory: 4 MB Flash, 2 MB user available 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
European and Asian font sets

Connectivity

RS-422/485 serial port adapter

ZebraNet® PrintServer II (internal or external)

Software

BAR-ONE® 6.04 software

COMMUNICATION AND INTERFACE CAPABILITIES

RS-232 serial port

High-speed, IEEE1284, bi-directional parallel interface

ZebraNet PrintServer II (internal or external)

PROGRAMMING LANGUAGES

Zebra Printer Management

ZebraLink™

ZebraNet™ Utilities

ZebraNet Bridge

Programming Language

ZPL II®—Universal language for Zebra printers.

Simplifies label formatting and enables format compatibility with other Zebra printers.

ZBI™—Controls and interprets text and data from peripherals and non-ZPL printer programming languages. Transmits captured data over LAN, WAN, or wireless network 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

Contains UFST® from Agfa Monotype Corporation

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

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