R4Mplus

RFID EPC-compatible Printers/Encoders

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-labelling solutions and as the pioneer of the radio frequency identification (RFID) smart label printer/encoder. The latest addition to Zebra's R series of on-demand printers/encoders, the R4Mplus, is helping companies comply with the RFID supply chain requirements of major retailers and government agencies. It is designed to support Electronic Product Code (EPC) RFID standards as they develop and is therefore an ideal solution for new RFID initiatives.

Reliability on demand™

R4Mplus

With support for ISO18000-6A, ISO18000-6B and EPC Class 1, the R4Mplus printer/encoders are perfect for RFID applications in:

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

If you are considering introducing RFID technology, the R4Mplus printer/encoder is also an ideal choice for use in your pilot schemes and demonstration projects.

For further information on these products, please visit the Zebra Web site at:
www.zebra.com

Standard Features

- Print methods: Thermal transfer or direct thermal
- Construction: Die-cast aluminium base, frame and printhead mechanism
- Metal media cover with large clear window
- Zebra® E³® Printhead Energy Control
- Auto-calibration
- Adjustable transmissive sensor
- Real-time clock
- Auto-ranging (110V–220V) power supply
- Colour-coded operator cues
- Back-lit LCD control panel
- ZPL II® – universal language for Zebra printers

Operating Characteristics

Environment
- Operating Temp. (tt) 40ºF/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 auto-ranging (PFC-compliant) power supply 90-265 VAC; 48-62Hz; 5A fused

Communication Interface Capabilities
- RS-232 serial port
- High-speed, IEEE1284, bi-directional parallel interface

Agency Approvals
- EN 60950
- EN 300 220
- ENTSI EN 301 489
- EN 55022
- EN 55024
- EN 61000-3-2
- EN 61000-3-3

Note: UHF RFID printers are not approved for use in Slovakia

Media Characteristics

Smart Labels

Maximum roll size
- 203mm (8") O.D. on a 76mm (3") I.D. core

Thickness (label & liner, excluding IC chip)
- 0.058mm (0.0023") to 0.25mm (.01")

Media types
- Continuous or fanfold, die-cut, notched, tag stock, perforated

Supported transponder types
- Integrated UHF RFID Reader/Encode for:
- ISO18000-6A, ISO18000-6B, and EPC Class 1
- EPC Class 1 Generation 2 via firmware update when available

For optimum print quality and printer performance, use genuine Zebra smart labels and ribbon

Ribbon Specifications

Ribbon is recommended to be at least as wide as media.

Maximum roll size
- 81.3mm (3.2") O.D

Standard length
- 1,476'/450m; provides 3:1 media roll-to-ribbon ratio

Width
- 51mm (2.0") to 110mm (4.33")

Ribbon setup
- Ribbon wound ink-side out

Core I.D.
- 25.4mm (1")

Fonts/Graphics/Symbologies

Fonts and Character Sets
- Standard Fonts: 7 bitmapped, 1 smooth-scalable (CG Triumvirate™ Bold Condensed)
- Pre-loaded Unicode compliant scalable fonts for EMEA
- 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

Bar Code 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

Options and Accessories

- Up to 32MB additional linear flash via PCMCIA; up to 256MB additional ATA format via PCMCIA or CompactFlash® cards
- Memory socket board for the above
- Peel – a front mount, passive peel option with no liner take-up
- Liner take-up (works with peel option) – full roll liner take-up spindle (fits standard base)
- Zebra Designer Pro
- ZebraNet Bridge Enterprise
- ZebraNet 10/100 Print Server (external only)
- ZebraNet PrintServer II (internal or external)
- European and Asian font sets
- RS-422/485 serial port adaptor

*Specifications listed are for base model printers with standard features only unless otherwise noted. Specifications subject to change without notice.

Confidently advance your EPC RFID compliance and business improvement initiatives with the UHF R4Mplus Class 1 versions

R4Mplus

Flexible and reliable

Able to support ultra-high-frequency (UHF) transponders from providers such as Philips Semi-Conductors, 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 centre or warehouse environment.

ZebraLink™ Solutions

Software
ZebraDesigner™ Pro
Zebra Universal Driver
ZebraNet™ Bridge Enterprise

Networking
ZebraNet® PrintServer II (internal or external)
ZebraNet® 10/100 PrintServer II (external only)

Firmware
ZPL II® – Universal language for Zebra printers. Simplifies label formatting and enables format compatibility with other Zebra printers.

R4Mplus

Maximum Print Area
Width: 104mm (4.09")
Length: 4,202mm (165")

Resolution
8 dots per mm (203 dpi)

Maximum Print Speed
254mm (10") per second

Memory
Standard: 8MB DRAM
4MB flash

Optional: Up to 32MB additional linear flash via PCMCIA

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

Physical Characteristics
Width: 278mm (10.93")
Depth: 475mm (18.69")
Height: 338mm (13.32")
Weight: 15kg (32.4lb)

Media Specifications
Label and liner width:
Min. 25.4mm (1")
Max. (Tear/Cutter) 114mm (4.5")
Max. (Peel/Rewind) 108mm (4.25")