



## Zebra® R110XiIIIPlus for "Class 0+" and EPC Class 0 Tags High-performance Smart Label Printer/Encoder

**This rugged and reliable RFID printer/encoder is built for the most demanding applications.**

Meet the R110XiIIIPlus, Zebra's ultra-high-frequency (UHF) printer/encoder that provides robust support for smart labels with UHF Class 0 Matrics® EPC-compatible tags or with Matrics' Class 0+ read/write tags. A valuable addition to Zebra's line-up of industrial/commercial RFID printer/encoders, the high-performance R110XiIIIPlus provides a choice in EPC-compatible systems to support your RFID pilots. Affordably priced, the R110XiIIIPlus provides an immediate, concrete solution for companies that want to use Class 0 or Matrics' Class 0+ tags to meet RFID mandates. Upgradeable to support future RFID protocols, the R110XiIIIPlus provides unmatched investment protection for end users.

### **High-Performance, High-Volume Smart Label Printing**

Built upon Zebra's highly regarded Xi platform, the R110XiIIIPlus is designed for high performance and mission-critical ruggedness in the most demanding environments. It delivers the legendary round-the-clock reliability and heavy-gauge-steel durability of Zebra's high-performance Xi series as well as full 4-inch print width, 203-dot-per-inch resolution, and the extensive connectivity choices of 110XiIIIPlus, making it ideal for shipping, warehousing, and manufacturing.

The high-performance R110XiIIIPlus has been designed for case- and pallet-level identification for companies needing to streamline logistics and supply chain management as well as other applications including:

- Asset tracking
- Inventory management
- Work in process
- Shipping/Receiving
- Distribution



Connect with it. Count on it.™

# R110XiIIIPlus



## Specifications at a Glance\*



By integrating the reader/encoder into the printer design, the R110XiIIIPlus offers end users significant flexibility in tag placement and label size.

### STANDARD FEATURES

- Integrated UHF RFID Reader/Encoder for EPC Class 0 (Matrics) tags and Matrics Class 0+ tags.
- Enhanced Alert notification – monitors printhead condition
- ZebraLink™
- Multi-level Element Energy Equalizer (E3®) for superior print quality
- Print methods: Thermal transfer or direct thermal
- Single 32 bit 133 Mhz RISC processor
- Zebra printer driver for Windows® 3.X and Windows 95/98/NT 2000
- Bi-fold media door with clear panel

### PRINTER SPECIFICATIONS

- Resolution**  
203 dpi/8 dots per mm
- Memory**  
Standard 16 MB SDRAM (12 MB available for user); 4 MB Flash (2.0 available to user)
- Optional: Compact Flash (up to 1 GB memory)
- Maximum Print Area**  
203 dpi: 4.09"/104 mm
- Print length**  
39" (991 mm) with standard memory
- Print speed**  
203 dpi: 10"/254 mm per second
- Media Sensors**  
Transmissive

### MEDIA CHARACTERISTICS – SMART LABELS

- Maximum label and liner length**  
39"/991 mm with standard memory
- Label and liner width**  
.79"/20 mm to 4.5"/114 mm
- Maximum roll outside diameter**  
8.0"/203 mm
- Core diameter**  
3"/76 mm core
- Media thickness**  
.003"/.076 mm to .012"/.305 mm
- Media types**  
Continuous or die-cut
- For optimum print quality and performance, use Genuine Zebra Supplies

### RIBBON CHARACTERISTICS

- Outside diameter**  
3.2"/81.3 mm
- Standard length**  
1476'/450 m or 984'/300 m; provides 3:1 & 2:1 media roll to ribbon ratios
- Ratio**  
Ribbon is recommended to be at least as wide as media.
- Width**  
.79"/20 mm to 4.33"/110 mm
- Ribbon setup**  
Ribbon wound ink side out
- Core I.D.**  
1.0"/25.4 mm

### OPERATING CHARACTERISTICS

- Environmental**  
Operating Temp (tt) 41° F/5° C to 104° F/40° C  
Operating Temp (dt) 32° F/0° C to 104° F/40° C  
Storage Temp -40° F/-40° C to 140° F/60° C  
Operating Humidity 20% to 85% non-condensing  
Storage Humidity 5% to 85% non-condensing
- Electrical**  
Universal power supply with power-factor correction 90-264 VAC, 48 – 62 Hz
- Agency approvals**  
cULus, FCC-B

### PHYSICAL CHARACTERISTICS

- Width: 10.37"/263.5 mm
- Height: 15.5"/393.7 mm
- Depth: 19.5"/495.3 mm
- Weight: 50 lbs./22.7 kg

### RELATED PRODUCTS

- Options and Accessories**  
ZebraNet® Wireless Card Socket  
ZebraNet Print Server II  
Scalable and international fonts

- Applicator interface
- IBM twinax interface
- IBM coax interface
- BAR-ONE® software
- Media supply spindle for 40 mm cores
- PCMCIA cards
- Compact Flash (CF) cards
- Connectivity**  
High-speed bi-directional, IEEE 1284 parallel interface  
RS-232C  
USB 2.0 port  
RS-422/485 multi-drop (optional adaptor)  
ZebraNet® Wireless Card Socket (optional)  
ZebraNet Print Server II (optional)

### PROGRAMMING LANGUAGES

- Core programming languages ZPL II®—Universal language for Zebra Printers
- ZBI™—Controls and interprets text and data 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**  
Codabar, Code 11, Code 39, Code 93, Code 128 with subsets A/B/C and UCC Case Codes, EAN-8, EAN-13, Industrial 2-of-5, Interleaved 2-of-5, ISBT-128, UPC-A, UPC-E, UPC and EAN 2 or 5 digit extensions, LOGMARS, MSI, and Planet Code, Plessey, Postnet, RSS-14 (and composite), Standard 2-of-5
- 2-Dimensional**  
Codablock, Code 49, Data Matrix, MaxiCode, PDF417, QR code, and TLC39

### FONTS AND GRAPHICS

- Character Fonts: Standard bitmapped Zebra fonts: A, B, C, D, E (OCR-B), F, G, H, (OCR-A), GS & Ø Smooth scalable font (CG Triumvirate Bold Condensed).
- Character Sets: IBM® Code Page 850  
International characters & graphic symbols
- Supports user defined fonts and graphics – including custom logos
- Smooth scalable font Ø (CG Triumvirate™ Bold Condensed) is expandable dot-by-dot, height and width independent, while maintaining edges to a max. 1500 x 1500 dots.
- IBM® Code Page 850 International Characters available in fonts A,B,D,E,F,G and Ø through software control.

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