



## Zebra® R110Xi HF™

13.56 MHz High-Frequency Multi-Protocol  
Printer/Encoders

### R110Xi HF for Powerful High-Performance Printing

Built on the solid and tested *XIIIPlus* platform, the R110Xi HF offers radio frequency identification (RFID) encoding at 13.56 MHz. The R110Xi HF has an unprecedented level of on-demand printing flexibility in tag placement, as well as unique features such as XML for seamless integration into enterprise systems, automatic calibration, flexible inlay positioning, multiple power levels, statistics tracking, easier RFID programming, and more detailed information through the front panel display. The R110Xi HF supports currently available protocols, including Philips' Mifare® Ultralight, ISO15693, and ISO18000-3.

### Full Range of HF Protocol Support

The R110Xi HF printer/encoder is firmware upgradeable to support new protocols; users can seamlessly upgrade to future supported RFID protocols as needed. Built for high-volume applications, the R110Xi HF is an ideal solution for industries such as pharmaceuticals, manufacturing, asset tracking (videos, DVDs, books), and ticketing (transit, entertainment, sports).

- RFID counters for tracking of good and unusable labels
- Multiple RFID power settings allow users to adjust the RF power in response to various protocols, transponder designs, and sizes
- Direct-connect XML-enabled printing
- RFID calibration feature with automatic program position selection for optimal transponder placement



# R110Xi HF



## Specifications at a Glance\*



Zebra's R110Xi HF printer/encoder offers flexible RFID encoding for smart label solutions and the widest support for high frequency (13.56 MHz) RFID.

### STANDARD FEATURES

- Fully integrated HF RFID reader/encoder supporting Mifare Ultralight, ISO15693, ISO18000-3 and ISO14443A
- RFID antenna port selection
- Place transponders virtually anywhere within a smart label
- Automatic program position selection for optimal transponder placement
- Label tracking
- Maximum read/write flexibility for small label printing
- Print methods: Thermal transfer or direct thermal
- Construction: 12-gauge steel frame
- Single 32 bit 133 MHz RISC processor
- 16 MB SDRAM; 4 MB non-volatile Flash memory
- Advanced media/ribbon counter
- Enhanced Alert notification—monitors printhead condition
- Multilingual backlit LCD display
- PCMCIA socket
- Multi-level Element Energy Equalizer™ (E<sup>3</sup>) for superior print quality
- CompactFlash® (up to 1 GB memory) for added label format/font storage

\*Specifications subject to change without notice.  
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### PRINTER SPECIFICATIONS

- Resolution**  
203 dpi/8 dots per mm  
300 dpi/12 dots per mm
- Memory**  
16 MB SDRAM (12 MB available to user)  
4 MB Flash (2 MB available to user)
- Print Width**  
4"/104 mm maximum
- Print Length**  
39"/991 mm maximum
- Print Speed**  
203 dpi: 10"/254 mm per second  
300 dpi: 8"/203 mm per second
- Media Sensors**  
Transmissive  
Reflective

### MEDIA CHARACTERISTICS

- Maximum label and liner length**  
.79"/20 mm to 4.5"/114 mm
- Maximum label and liner length**  
39"/991 mm
- Maximum roll diameter**  
8"/203 mm
- Core diameter**  
3"/76 mm
- Media thickness**  
.003"/.076 mm to .12"/.305 mm
- Media types**  
Continuous, die-cut, black mark

### RIBBON CHARACTERISTICS

- Outside diameter**  
3.2"/81.3 mm
- Standard length**  
1,476/450 m or 984/300 m
- Ratio**  
3:1 and 2:1 media roll to ribbon ratios
- Ribbon width**  
.79"/20 mm to 4.33"/110 mm
- Ribbon setup**  
Ribbon wound coated side out
- ID Core**  
1"/25.4 mm

### OPERATING CHARACTERISTICS

- Environmental**  
TT: Operating temperature 41° F/5° C to 104° F/40° C Thermal transfer  
DT: Operating temperature 32° F/0° C to 104° F/40° C Direct thermal  
Storage temperatures: -40° F/-40° C to 140° F/60° C  
Operating humidity: 20-85% non-condensing R.H.  
Storage humidity: 5-85% non-condensing R.H.

### Electrical

Universal power supply with power-factor correction 90-264 VAC, 48-62 Hz

### Agency approvals

Bi-National UL 60950 3rd edition/CSA CAN/CSA-C22.2 No. 60950-00 Third Edition, FCC part 15.247, RSS-210, ETSI EN 300 220-3 and ETSI EN 301 489-3

### 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

### OPTIONS AND ACCESSORIES

Rewind  
Cutter  
Bi-fold media door with clear panel  
Label peel

### ZEBRALINK™ SOLUTIONS

#### Software

ZebraDesigner™ Pro  
ZebraDesigner for XML  
ZebraDesigner  
ZebraNet™ Bridge Enterprise  
ZebraNet Utilities v. 7.0

#### Networking

ZebraNet® Wireless Print Server  
ZebraNet 10/100 Print Server (internal/external)  
ZebraNet PrintServer II (internal/external)  
IBM® twinax/coax interface

#### Firmware

ZPL II®  
XML-enabled

### COMMUNICATION AND INTERFACE CAPABILITIES

USB 2.0 port (480 Mbits per second)  
RS-232C/RS-422/485 multi-drop (optional adaptor)  
High-speed, bi-directional, IEEE 1284 parallel interface

### FONTS/GRAPHICS/SYMBOLOLOGIES

Over 35 different linear and 2-dimensional bar code symbologies available. Check the R110Xi HF Technical Specifications for the complete listing.  
Bitmap fonts A through H and GS symbols are expandable up to 10 times, height and width independent  
Smooth scalable font (CG Triumvirate™ Bold Condensed) is expandable dot-by-dot, height and width independent  
Sets: IBM Code Page 850 International Characters  
Contains UFST® from Monotype Imaging, Inc.

**HEADQUARTERS** Zebra Technologies International, LLC **T:** +1 847 793 2600 or +1 800 423 0442 **F:** +1 847 913 8766  
**ADDRESS:** 333 Corporate Woods Parkway, Vernon Hills, IL 60061-3109 U.S.A. **WEB:** www.zebra.com

**OTHER LOCATIONS** **USA:** California, Rhode Island, Wisconsin **EUROPE:** France, Germany, Italy, Netherlands, Poland, Spain, Sweden, United Kingdom **ASIA-PACIFIC:** Australia, China, Japan, Singapore, South Korea  
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