

- 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



13.56 MHz High-Frequency Multi-Protocol Printer/Encoders

# R110Xi HF for Powerful High-Performance Printing

Built on the solid and tested *XiIIIPlus* platform, the R110*Xi* HF offers radio frequency identification (RFID) encoding at 13.56 MHz. The R110*Xi* 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 R110*Xi* 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).



# R110Xi HF



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™ (E³) for superior print quality

CompactFlash® (up to 1 GB memory) for added label format/font storage

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# Specifications at a Glance\*

# PRINTER SPECIFICATIONS

#### Resolution

203 dpi/8 dots per mm 300 dpi/12 dots per mm

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

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

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

# ZEBRALINK<sup>™</sup> 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/SYMBOLOGIES

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.



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