



High-performance RFID multi-protocol print engine for print-and-apply Solutions

If your business must comply with radio frequency identification (RFID) mandates, look to Zebra's R110PAX4 to help you jump-start the process. Zebra's PAX™ print engines are performance leaders in mission-critical print-and-apply applications. We've coupled the performance of PAX with RFID technology to empower you with a one-stop shop for identifying cases and pallets.

RFID technology provides a quick, flexible and reliable way to electronically detect, track and control a variety of items. Use the R110PAX4 to streamline your consumer packaged goods efforts, avoiding the hassle of inkjet carton-marking.

The R110PAX4 is offered in both right and left-hand versions and 203- and 300-dpi models. In addition, the R110PAX4 is optimised for fast throughput, the calibration feature automatically selects the optimal transponder position, and the RFID counters track both good and unusable labels.

The R110PAX4 currently supports many RFID standards including EPC Gen 2. The reader's unique software architecture supports software upgrades for new protocols, offering solid investment protection for your RFID initiatives.



R110PAX4™

The high-performance R110PAX4 RFID print engine for high-speed, automated print-and-apply systems is designed to provide 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
- Shipping/receiving
- Distribution

Get the most out of your Zebra, put genuine Zebra supplies in!

Zebra offers a wide range of supplies for R110PAX4 printers, all made to a high standard and suitable for a variety of applications.

- Manufactured exclusively for Zebra printers
- Laboratory-tested for optimum performance
- Proven to minimise wear and tear on printheads

► For more information, visit www.zebra.com



Specifications at a glance*

Standard Features

- Fully integrated SAMsys UHF RFID reader/encoder for
 - EPC Class 1 64-bit/96-bit, including EPC Gen 2
 - 18000-6 Parts A and B
 - Philips UCODE
- Multi-level Element Energy Control
- (E³) for superior print quality
- Internal real-time clock
- Print methods: Thermal transfer or direct thermal
- 32-bit 133MHz RISC processor
- Zebra® printer driver for Windows® 3.X and Windows NT®/95/98/2000/XP/2003 operating systems
- XML-enabled printing

Operating Characteristics

Environment

- Operating Temperature 0°C/32°F to 40°C/105°F
- Storage Temperature -40°C/-40°F to 71°C/160°F
- Operating Humidity 20% to 95% non-condensing
- Storage Humidity 5% to 95% non-condensing

Electrical

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

Communication Interface Capabilities

- High-speed bi-directional IEEE 1284 parallel interface
- High-speed serial interfaces:
 - RS-232-C and RS-422 with DB-9F connector
 - RS-485 multi-drop capability
 - Configurable baud rate (110 to 57.6KB), parity, data bits and stop bits
- Software (XON/XOFF) or hardware (DTR/DSR) communication handshake protocols
- Applicator interface with DB-15F connector

Agency Approvals

- EN 60950, EN 61000-6-2, EN 55022, EN 300 220, EN 301 489

Media Characteristics

Maximum label and liner length

Minimum standard media label length: **

- Applicator mode: 12.7mm/0.50"; 12.7mm/0.50" with backfeed off
- Rewind mode: 6.4mm/0.25"
- Tear-off mode: 12.7mm/0.50"; 6mm/0.25" with backfeed off

** Media registration and minimum label length are affected by media, ribbon and print speed. Zebra recommends always qualifying any application with thorough testing.

**Smaller labels may be printed subject to qualifying the media and application with testing.

Label and liner width

- 16mm/0.625" to 114mm/4.5"

Media thickness

- 0.148mm/0.0058" to 0.254mm/0.010"

Media types

- Continuous, die-cut or black mark

Ribbon Characteristics

Outside diameter

- 101.6mm/4.0" O.D.

Standard length

- 900m/2,955'

Ratio

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

Width

- 25mm/1.0" to 107mm/4.2251"

Ribbon Setup

- Ribbon wound coated-side-out

Core I.D.

- 25.4mm/1.0" I.D. core

Fonts/Graphics/Symbologies

Fonts and Character Sets

- 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)
- 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
- IBM® Code Page 850 International Characters
- Contains UFST® from Monotype Imaging Inc.

Graphic Features

- Supports user-defined fonts and graphics, including custom logos
- ZPL II drawing commands, including boxes, circles and diagonal lines

Bar Code Symbologies

- Linear Bar Codes: 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, Logmars, MSI, Planet Code, Plessey, Postnet, RSS-14, Standard 2-of-5, UPC-A, UPC-E, UPC and EAN 2 or 5 digit extensions
- 2-Dimensional: Codablock, Code 49, Data Matrix, MaxiCode, MicroPDF, PDF417, QR Code and TLC 39

Options and Accessories

- PCMCIA cards, CompactFlash® cards
- 8MB and 32MB linear PCMCIA cards available
- Unicode™, WGLA through Swiss 721
- PC memory card, additional fonts available
- Firmware support for downloadable TrueType™ fonts

ZebraLink Solutions

Software

ZebraDesigner™ Pro
ZebraNet™ Bridge Enterprise
ZebraNet Utilities v7.0
Zebra Universal Driver

Networking

ZebraNet® PrintServer II (internal and external)

Firmware

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

WebView – enables you to connect and control your bar code printer's Web interface using a common Web browser

Alert – printers equipped with ZebraNet print servers will notify you via any email-enabled wired or wireless device to minimise downtime

Printer Specifications

Resolution

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

Memory

10MB RAM
2MB non-volatile flash

Print Width

104mm/4.1"

Print Length

Maximum non-continuous media print length (203/300dpi): 990mm/39"
Maximum continuous media print length (203dpi): 3810mm/150"
Maximum continuous media print length (300dpi): 2540mm/100"

Print Speed

203dpi: 203mm (8") maximum print speed
300dpi: 305mm (12") maximum print speed

Media Sensors

Transmissive and reflective

Physical Characteristics

Width: 245mm/9.6"
Height: 300mm/11.8"
Depth: 417mm/16.4"
Weight: 16.3kg/36lb

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

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Thinking about mobilising your workforce?

The use of mobile printers in a warehouse or supply-chain environment improves productivity and provides a fast return on investment.

- ▶ To find out how your business could benefit from a Zebra mobile-printing solution, please visit www.zebra.com, call +44 (0)1628 556000 or e-mail mseurope@zebra.com



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