

Zebra® R110PAX4™

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



Reliability on demand™



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

Environmental

- 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 and Interface Capabilities

- High-speed bi-directional IEEE 1284 parallel interface
- High-speed serial interfaces:

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"

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)
- Supports user-defined fonts and graphics – including custom logos

Bar Codes/Symbologies

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, Logmars, MSI, Planet Code, Plessey, Postnet, RSS-14, Standard 2-of-5, UPC-A, UPC-E, UPC and EAN 2 or 5 digit extensions

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

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

© 2006 Zebra Technologies Europe Limited. Reliability on demand, ZebraLink, ZebraDesigner and all product names and numbers are Zebra trademarks, and Zebra, representation of Zebra Head, E³, ZebraNet and ZPL II are registered trademarks of Zebra Technologies Europe Limited. All rights reserved. CG Triumvirate is a trademark of Agfa Division, Miles Inc. IBM is a registered trademark of International Business Machines Corporation. CompactFlash is a registered trademark of SanDisk Corporation. Unicode is a trademark of Apple Computer, Inc. UFST is a trademark of Monotype Imaging Inc. and may be registered in certain jurisdictions. Windows and Windows NT are registered trademarks of Microsoft Corporation in the United States and/or other countries. All other trademarks are the property of their respective owners.



R110PAX4™

ZebraLink™

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

Ideal for harsh packaging environments, the RFID R110PAX4 blends RFID's benefits with the ruggedness of Zebra's PAX4 print engine.

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