

Zebra® R110PAX4™

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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.

The R110PAX4 is the only print engine to embed ThingMagic's Mercury4e reader/encoder module, which supports multiple protocols. The R110PAX4 is offered in both right-hand and left-hand versions and 203- and 300-dpi models. In addition, RFID processes are optimized for faster throughput, while RFID counters keep track of good and unusable labels. The R110PAX4 embeds ThingMagic's Mercury4e, which supports both multiple antennas and multiple protocols, including UHF EPC-compliant Class 1, Gen 2; ISO 18000-06B; and Philips UCode 1.19. The reader's unique software architecture allows for simple firmware upgrades for new protocols—providing solid investment protection for your RFID initiatives. The R110PAX4 also offers sophisticated features such as XML-Enabled printing, auto-calibration, multiple power settings and flexible inlay placement, which are demanded for leading RFID applications today.



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



Specifications at a Glance*

Standard Features

- Fully integrated ThingMagic® UHF RFID reader/encoder for
 - ISO 18000-6B
 - EPC EPC Class 1, Gen 2
- Multi-level Element Energy Control™ (E³) for superior print quality
- Internal real-time clock
- Print methods: Thermal transfer or direct thermal 32-bit 133 MHz RISC processor
- Zebra printer driver for Windows® 3.X and Windows 95/98/NT/2000/XP/2003 operating systems
- XML-Enabled printing—direct-connect integration for bar code label printing; eliminates license fees and print server hardware and lowers customization and programming costs

Printer Specifications

Resolution

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

Memory

- 10 MB RAM
- 2 MB non-volatile Flash

Print width

4.1"/104 mm

Print length

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

Maximum continuous media print length

(203 dpi): 150"/3810 mm

Maximum continuous media print length

(300 dpi): 100"/2540 mm

Print Speed

- 203 dpi: 12 ips maximum print speed
- 300 dpi: 8 ips maximum print speed

Media Sensors

Transmissive and reflective

Media Characteristics

Maximum label and liner length

Minimum standard media label length: **

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

** Media registration and minimum label length are affected by media type and width, ribbon type, and print speed. Performance improves as these factors are optimized. Zebra recommends always qualifying any application with thorough testing.

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

Label and liner width

.625"/16 mm to 4.5"/114 mm

Media thickness

0.0058"/0.148 mm to 0.010"/0.254 mm

Media types

Continuous, die-cut or black mark

Ribbon Characteristics

Outside diameter

4.0"/101.6 mm O.D

Standard length

2,955'/900 m

Ratio

Ribbon is recommended to be at least as wide as media

Width

1.0"/25 mm to 4.2251"/107 mm

Ribbon setup

Ribbon wound coated-side out

Core I.D.

1.0"/25.4 mm I.D. core

Operating Characteristics

Environmental

- Operating Temp.: 32° F/0° C to 105° F/40° C
- Storage Temp. -40° F/-40° C to 160° F/71° C
- Operating Humidity: 20% to 95% non-condensing R.H.
- Storage Humidity: 5% to 95% non-condensing R.H.

Electrical

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

Agency Approvals

UL60950-1, CAN/CSA-C22.2 No. 60950-1-03, FCC Part 15.107 and 15.109 Class A, FCC Part 15.247 (UHF applications), Canadian ICES-003, Class A, IC RSS-210

Physical Characteristics

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

Related Products

Options and Accessories

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

ZebraLink™ Solutions

Software

- ZebraDesigner™ Pro
- ZebraDesigner for XML
- ZebraDesigner
- ZebraNet™ Bridge Enterprise
- ZebraNet Utilities v 7.0
- Zebra Universal Driver

Networking

- ZebraNet 10/100 Print Server
- ZebreNet Wireless Plus

Firmware

- ZPL II®
- XML-Enabled printing
- Web View
- Alert

Communication and Interface Capabilities

- High-speed bi-directional IEEE 1284 parallel interface
- High-speed serial interfaces:
 - RS-232C and RS422 with DB9F connector
 - RS-485 multi-drop capability
 - Configurable baud rate (110 to 57.6 kB), parity, data bits, and stop bits
- Software (XON/XOFF) or hardware (DTR/DSR) communication handshake protocols
- Applicator interface with DB15F connector

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

2-Dimensional

Codablock, Code 49, Data Matrix, MaxiCode, MicroPDF, PDF417, QR Code and TLC 39

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
- 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.

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