



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.

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 Gen 2, Class 1; Gen 1 Class 1 and Class 0; Matrics' 0+ read/write, ISO 18000-06B and Philips UCode 1.19. The reader's unique software architecture allows for simple firmware upgrades for new protocols offering 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, that 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



R110PAX4



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

STANDARD FEATURES

Fully integrated ThingMagic® UHF RFID reader/encoder for

- EPC Class 1, Gen 1
- EPC Class 0, Gen 1
- Matrics® 0+
- 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

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

Not all products are available worldwide due to country-specific government regulations. Contact your Zebra representative for product availability.

Specifications at a Glance*

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
ZebraNet™ Bridge Enterprise
ZebraNet Utilities v 7.0
Zebra Universal Driver

Networking

Zebanet® PrintServer II (Internal and External)

Firmware

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

Web View—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 minimize downtime.

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/SYMBOLOLOGIES

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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