PAX4™ Series





Versatile, Four- and Six-Inch-Wide OEM Print Engines

PAX4™ print engines deliver superior performance and reliability.

The 110*PAX*4 and 170*PAX*4 print engines are the performance leaders in mission-critical print-and-apply applications. With enhanced connectivity, including wireless and Ethernet, along with all-metal construction, *PAX*4 print engines deliver outstanding value, reliability, and durability.

Better than ever for high-volume needs

With improved serviceability, faster first-label-out time, and a fully functional real-time clock, the *PAX*4 print engines deliver what it takes to make print-and-apply solutions super performers. European voltage requirements are now met with the 28V I/O option.

Real-time connectivity and control

Reduce downtime and increase productivity. Through ZebraLink™, *PAX*4 print engines can send you instant status alert messages and give you Web-based centralised control, allowing you to troubleshoot quickly and keep production lines moving.

PAX4™ Series

Designed for high-speed, high-throughput applications, both the 110*PAX*4 (for four-inch printing) and the 170*PAX*4 (for print widths up to six inches) are ideal for print-and-apply applications including:

- Mission-critical industrial applications
- High-volume product, carton, case, and pallet labelling
- Packaging with accurate time and date stamping

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

Zebra offers a wide range of supplies for *PAX*4 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

- Print methods: Thermal transfer or direct thermal
- Orientation: Right-hand or left-hand
- Industrial all-metal construction
- 10MB DRAM
- Standard 4MB non-volatile flash memory, (optional 64MB)
- Applicator interface
- Transmissive and reflective media sensors
- Multilingual backlit LCD
- Enhanced alert notification – monitors printhead condition
- ZebraLink™
- Multi-level Element Energy Equalizer™ (E^{3}™) for superior print quality
- 32-bit 133MHz RISC processor
- Real-time clock
- ZPL II® – Universal language for Zebra printers

Printer specifications

110*PAX*4™:

Minimum Print Area

- Width: 13mm (0.5")
- Length with standard memory: 13mm (0.5")
- Length with backfeed: 13mm (0.5")
- Length without backfeed: 6.5mm (0.25")

Maximum Print Area

- Width: 104mm (4.1")
- Length with standard memory: 990mm (39")
- Maximum continuous media print length: 10MB memory: 2,540mm (100")

Resolutions

- 8 dots/mm (203dpi) or 12 dots/mm (300dpi)

Maximum Print Speed

- 305mm (12") per second (203dpi)
- 203mm (8") per second (300dpi)

Memory

- 10MB DRAM; 2MB non-volatile flash

170*PAX*4™:

Minimum Print Area

- Width: 76mm (3")
- Length with standard memory: 76mm (3")
- Length with backfeed: 76mm (3")
- Length without backfeed: 25.4mm (1")

Maximum Print Area

- Width: 168mm (6.6")
- Length with standard memory: 990mm (39")
- Maximum continuous media print length: 10MB memory: 3,810mm (150")

Resolutions

- 8 dots/mm (203dpi) or 12 dots/mm (300dpi)

Maximum Print Speed

- 305mm (12") per second (203dpi)
- 203mm (8") per second (300dpi)

Memory

- 10MB DRAM; 2MB non-volatile flash

Media Characteristics

Labels

Media Thickness (label and liner)

- 0.148mm (0.0055“) to 0.254mm (0.010“)

Media Types

- Continuous, die-cut or black mark

For optimum print quality and print engine performance, use Genuine Zebra® Supplies.

Ribbons

Max. Roll Size

- 101.6mm (4") O.D. on a 25.4mm (1") I.D. core

Standard Length

- 900m capacity

Ribbon Set-up

- Ribbon wound ink-side out

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

Operating Characteristics

Environment

- Operating Temp. 0ºC (31ºF) to 40ºC (105ºF)
- Storage Temp. -40ºC (-40ºF) to 71º C (160ºF)
- 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, 48-62Hz

Connectivity

- High-speed bi-directional parallel interface, Centronics®-compatible
- 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

- UL-60950 3rd edition, CAN/CSA-C22.2 No 60950-00 3rd edition, FCC part 15 – Class A, ICES-003, EN60950, EN55022-Class A, EN61000-6-2, VCCI, CCC

Physical characteristics

110*PAX*4™:

Width: 245mm (9.6")
Depth: 379mm (14.9")
Height: 300mm (11.8")
Weight: 15.6kg (34.5lbs)

170*PAX*4™:

Width: 245mm (9.6")
Depth: 432mm (17")
Height: 300mm (11.8")
Weight: 16.1kg (35.5lbs)

Fonts/Graphics/Symbologies

Fonts and Character Sets

- Bitmap fonts A to H and GS symbols are expandable up to 10 times, height- and width- independent
- 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 Agfa Monotype Corporation

Graphic Features

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

Bar Code Symbologies

- Linear Bar Codes: Codabar, Code 11, Code 39, Code 93, Code128 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, Plessey, Postnet, RSS, Standard 2-of-5, UPC-A, UPC-E, UPC and EAN 2 or 5 digit extensions
- 2-Dimensional: Codablock, Code 49, Data Matrix, MaxiCode, MicroPDF417, PDF417, QR Code, RSS

Options and Accessories

- PCMCIA cards
- CompactFlash® cards
- Linear PCMCIA cards available 8MB and 32MB
- ZebraNet® 10/100 Print Server
- ZebraNet Wireless Plus Print Server
- Firmware support for downloadable TrueType™ fonts
- PC memory card
- Additional fonts available
- 24-28V I/O applicator interface
- Unicode™: WGLA through Swiss 721
- XML Firmware option

Media specification

110*PAX*4™:

Label and liner width:
16mm (0.625") to 114mm (4.5")
Ribbon width: 25.4mm (1") to 108mm (4.25")

170*PAX*4™:

Label and liner width:
76mm (3") to 180mm (7.1")
Ribbon width: 76mm (3") to 180mm (7.1")

ZebraLink Solutions

Software

ZebraDesigner™ Pro
ZebraNet™ Bridge Enterprise
ZebraNet Utilities v 7.0
Zebra Universal Driver
ZBI-Developer™

Networking

ZebraNet 10/100 Print Server
ZebraNet Wireless Print Server
ZebraNet Wireless Plus Print Server

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.

ZBI 2.0™ – Optional, powerful programming enhancement that lets Zebra printers run stand-alone applications, connect with peripherals, and more.

*Specifications subject to change without notice. .

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