

# PAX4™ Series

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

## PAX4™ print engines deliver superior performance and reliability.

The 110PAX4 and 170PAX4 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, PAX4 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 PAX4 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™, PAX4 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.



Reliability on demand™

# PAX4™ Series

Designed for high-speed, high-throughput applications, both the 110PAX4 (for four-inch printing) and the 170PAX4 (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

For further information on these products, please visit the Zebra Web site at:  
[www.zebra.com](http://www.zebra.com)



## Zebra Technologies

*European Headquarters*  
Zebra House, The Valley Centre  
Gordon Road, High Wycombe  
Buckinghamshire HP13 6EQ  
United Kingdom  
Tel: +44 (0)1494 472872  
Fax: +44 (0)1494 450103

*Regional Sales Office*  
Mollsfeld 1  
D-40670 Meerbusch  
Germany  
Tel: +49 (0) 2159 6768 0  
Fax: +49 (0) 2159 6768 22

*Regional Sales Office*  
50 rue Marcel Dassault  
F-92100 Boulogne-Billancourt  
France  
Tel: +33 (0)1 55 20 93 93  
Fax: +33 (0)1 55 20 93 99

*International Headquarters*  
333 Corporate Woods Parkway  
Vernon Hills, IL 60061-3109  
USA  
Tel: +1 847 793 2600  
Fax: +1 847 913 8766

## Other Locations

*United States:* California, Florida, Rhode Island, Wisconsin  
*Europe:* Italy, the Netherlands, Poland, Spain, Sweden  
*Asia-Pacific:* Australia, China, Japan, Singapore, South Korea  
*Middle East:* Dubai



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## 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
- 2MB non-volatile flash memory
- Applicator interface
- Transmissive and reflective media sensors
- Multilingual backlit LCD
- Enhanced alert notification – monitors printhead condition
- ZebraLink™
- Multi-level Element Energy Equalizer™ (E<sup>3</sup>) for superior print quality
- 32-bit 133MHz RISC processor
- Zebra printer driver for Microsoft® Windows® 3.X and Windows 95/98/NT/2000
- Real-time clock
- ZPL II® – Universal language for Zebra printers

### Operating Characteristics

#### Environment

- Operating Temp. 0°C (31°F) to 40°C (105°F)
- Storage Temp. -40°C (-40°F) to 71° C (160°F)
- 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

### 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.

### 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

#### Bar Code 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, 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

#### Graphics Features

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

### Options and Accessories

- PCMCIA cards
- CompactFlash® cards
- Linear PCMCIA cards available 8MB and 32MB
- ZebraNet® 10/100 PrintServer
- ZebraNet Wireless 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

\*Specifications subject to change without notice.

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## 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

#### Physical Characteristics

Width: 245mm (9.6")

Depth: 379mm (14.9")

Height: 300mm (11.8")

Weight: 15.6kg (34.5lbs)

#### Media Specifications

Label and liner width:

16mm (0.625") to 114mm (4.5")

Ribbon width: 25.4mm (1") to 108mm (4.25")

## 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

#### Physical Characteristics

Width: 245mm (9.6")

Depth: 432mm (17")

Height: 300mm (11.8")

Weight: 16.1kg (35.5lbs)

#### Media Specifications

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

#### Networking

ZebraNet 10/100 Print Server

ZebraNet Wireless Print Server

### ZebraLink™

#### 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.