Zebra® 110*PAX*4™ 170*PAX*4™

*PAX*4™ Print Engines Deliver Superior Performance and Reliability

The 110*PAX*4 and the 170*PAX*4 print engines are the performance leaders in mission-critical print-and-apply applications. With increased throughput and enhanced connectivity, including wireless and Ethernet, along with all-metal construction and outstanding print quality, *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. Using advanced ZebraLink™ Solutions, *PAX*4 print engines offer instant status alert messages and centralized control, allowing you to troubleshoot quickly and keep production lines moving.

Wireless Communications

When equipped with ZebraNet® Wireless Plus, *PAX*4 supports the latest wireless security and authentication protocols.

Designed for high-speed, high-throughput applications, both the 110*PAX*4 (for 4-inch printing) and the 170*PAX*4 (for print widths up to 6 inches wide) are ideal for print/apply systems including:

- Mission-critical industrial applications
- High-volume product, carton, case, and pallet labeling
- Packaging

Specifications at a Glance*

110*PAX*4

Print Specifications

Print Width
4.1"/104 mm

Print Length
Maximum non-continuous media: 39"/990 mm
Maximum continuous media: 100"/2540 mm

Physical Characteristics
• Width: 9.6"/245 mm
• Height: 11.8"/300 mm
• Depth: 16.4"/417 mm
• Weight: 36.5 lbs./15.6 kg

Media Characteristics

Media Width (label and liner)
0.625"/16 mm to 4.5"/114 mm

Media Thickness (label and liner)
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

Ribbon Setup
Ribbon wound coated-side out

Core I.D.
1.0"/25.4 mm I.D. core

170*PAX*4

Printer Specifications

Print Width
 6.6"/168 mm

Print Length
Maximum non-continuous media: 39"/990 mm
Maximum continuous media: 150"/3810 mm

Physical Characteristics
• Width: 9.6"/245 mm
• Height: 11.8"/300 mm
• Depth: 18.3"/465 mm
• Weight: 35.5 lbs./16.1kg

Media Characteristics

Media Width (label and liner)
3.0"/76 mm to 7.1"/180 mm

Media Thickness (label and liner)
.003"/.076 mm to .012"/305 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

Ribbon Setup
Ribbon wound coated-side out

Core I.D.
1.0"/25.4 mm I.D. core

Standard Features
• Resolution:
  203 dpi/8 dots per mm;
  300 dpi/12 dots per mm
• Memory: 10 MB DRAM; 2 MB non-volatile Flash
• Print methods: Thermal transfer or direct thermal
• Print Speed: 12"/305 mm per second (203 dpi)
  8"/203 mm per second (300 dpi)
• Media Sensors: Transmissive and reflective
• Orientation: Right-hand or left-hand
• Industrial all-metal construction
• 10 MB DRAM
• 2 MB non-volatile Flash memory
• Applicator interface
• Multilingual backlit LCD
• Enhanced Alert notification—monitors
• printhead condition
• Multi-level Element Energy Equalizer™ (E³™) for
  superior print quality
• 32-bit 133 MHz RISC processor
• Zebra printer driver for Windows® 3.X and Windows
  95/98/NT/2000
• Real-time clock
• XML-Enabled printing

Operating Characteristics

Environmental (Thermal Transfer)
• Operating Temp.
  40º F/5º C to 104º F/40º C
• Storage Temp.
  -40º F/-40º C to 160º F/71º 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
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

Related Products

Options and Accessories
• PCMCIA cards
• CompactFlash® cards
• Linear PCMCIA cards available 8 MB and 32 MB
• 64 MB On-Board Linear Flash Memory
• RFID Ready (110*PAX*4 only)
• WGLA through Swiss 721
• Firmware support for downloadable TrueType™ fonts
• PC memory card
• Additional fonts available

Zebralink Solutions

Software
• ZebraDesigner™ Pro
• ZebraDesigner for XML
• ZebraNet™ Bridge
  Enterprise
• ZebraNet Utilities v 7.0
• Zebra Universal Driver
• ZBI-Developer™

Networking
• ZebraNet® 10/100 Print Server
• ZebraNet Wireless Plus

Firmware
• ZPL® II
• Global Printing
• XML-Enabled printing
• APL-I™/APL-D™ (Contact Zebra Development
  Services for additional details)
• Web View
• Alert
• ZBI 2.0™

Communications and Interface Capabilities
• High-speed bi-directional parallel interface,
  Centronics® compatible.
• High serial interfaces: RS-232C and RS422 with
  DB9F connector
• RS-485 multi-drop capability
• Configured baud rate (110 to 57.6 kB), parity, data
  bits, and stop bits
• Applicator interface with DB15F connector

Bar Code Symbologies

Linear Bar Codes
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, IBST-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, Aztec

Fonts and Graphics

Fonts and Character Sets
• Bitmap fonts A through 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
• Sets: IBM® Code Page 850 International Characters
• Contains UFST® from Monotype Imaging, Inc.

Graphic Features
Supports user-defined fonts and graphics— including
custom logos