Zebra® 110*PAX*4™ 170*PAX*4™

Versatile, 4-and 6-Inch-Wide OEM Print Engines

*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.

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

110*PAX*4 170*PAX*4

Specifications at a Glance*

110*PAX*4†

PRINTER 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):
 .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

† Effective March 15, 2005 all 110*PAX*4 print engines have
 an RFID Ready option.

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. 40° F/5° C to 104° 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
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 †
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

Networking
ZebraNet® 10/100 Print Server
ZebraNet Wireless Plus

Firmware
ZPL® II—Universal language for Zebra printers.
 Simplifies label formatting and enables format
 compatibility with other Zebra printers.
Global Printing—Unicode™-compliant for fast
 multi-language, on-demand thermal printing
 right out of the box.
XML-Enabled printing—Direct-connect integration
 for bar code label printing that eliminates
 license fees and print server hardware, and
 lowers customization and programming costs.
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.

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