



Zebra® 110PAX4™ 170PAX4™

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

PAX4™ print engines deliver superior performance and reliability.

The 110PAX4 and the 170PAX4 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, 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. With Zebra's advanced printer management, PAX4 print engines offer instant status alert messages and Web-based centralized control, allowing you to troubleshoot quickly and keep production lines moving.

Designed for high-speed, high-throughput applications, both the 110PAX4 (for 4 inch printing) and the 170PAX4 (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



110PAX4 170PAX4



Specifications at a Glance*

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
Transmissive and reflective media sensors
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

OPERATING CHARACTERISTICS

Environmental (Thermal Transfer)
Operating Temp. 31° 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
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
ZebraNet® 10/100 PrintServer
ZebraNet Wireless Print Server
UNICODE
WGLA through Swiss 721
Firmware support for downloadable TrueType™
fonts
PC memory card
Additional fonts available

Connectivity

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

PROGRAMMING LANGUAGES

Zebra Printer Management

ZebraLink™
ZebraNet™ Utilities
ZebraNet Bridge

Programming Language

ZPL II®—Universal language for Zebra printers.
Simplifies label formatting and enables format
compatibility with other Zebra printers.
ZBI™—Controls and interprets text and data from
peripherals and non-ZPL printer programming lan-
guages. Transmits captured data over LAN, WAN,
or wireless network via e-mail or TCP/IP messaging.

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, 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

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 Agfa Monotype Corporation
Graphics Features
Supports user-defined fonts and graphics—
including custom logos

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Windows is a trademark of Microsoft Corporation. CG
Triumvirate is a trademark of Agfa Division, Miles Inc. IBM is
a registered trademark of International Business Machines
Corporation. UFST is a registered trademark of Agfa
Monotype Corporation. All other trademarks are the property
of their respective owners.

110PAX4

PRINTER SPECIFICATIONS

Print width: 4.1"/104 mm
Print length:
Maximum non-continuous media print length:
10 MB memory = 39"/990 mm
Maximum continuous media print length:
10 MB memory = 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

170PAX4

PRINTER SPECIFICATIONS

Print width: 6.6"/168 mm
Print length:
Maximum non-continuous media print length:
10 MB memory = 39"/990 mm
Maximum continuous media print length:
10 MB memory = 150"/3810 mm

PHYSICAL CHARACTERISTICS

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

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

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