

# Zebra® 90X/II

THERMAL TRANSFER DEMAND PRINTER

## Introducing the 90X/II

The Zebra 90X/II™ printer is ideal for applications that require small, high-resolution bar code labels, such as tracking printed circuit boards and small parts and identifying small products. The printer's standard 300dpi printheads ensure text, graphics and bar codes always print clearly, which is ideal when label space is limited. And when higher print densities for bar codes, small text and graphics are necessary, the optional 600dpi print capability is available.

Industrial-strength construction and proven reliability ensure the 90X/II printer will withstand the most demanding environments. With advanced standard features and flexible options, the 90X/II can be manufactured to your exact specifications, and has the versatility to meet growing applications.

### Performance

With print speeds of up to 8 inches per second (ips) with 300dpi, and 4ips with 600dpi, you won't have to wait long for the 90X/II to print high-resolution graphics, text and bar codes. In addition, a PC Card Interface allows for easy storage of complete label formats, graphics files, fonts, and even multiple international characters and fonts. This feature minimizes label format download time and maximizes printer throughput.

### Easy-to-use

The 90X/II is easy to operate through its full function front panel and multilingual LCD display. In addition, its modular design simplifies maintenance with easy access to all components.

### Reliability

From the 12-gauge steel frame to the stainless steel spindles, the 90X/II ensures high-performance label printing every time. Plus, when the 90X/II is combined with selected genuine Zebra® supplies, you have a complete UL/CSA approved printing system to meet tough labeling requirements.

### Compatibility

Serial and high-speed parallel interfaces allow the 90X/II to easily connect to any common PC or laptop. A variety of other interfaces allow the printer to connect to virtually any host system environment. In addition, the 90X/II easily integrates with other Zebra® printers due to ZPL II®, Zebra's powerful, easy-to-use programming language.

## For more information

For additional details on all Zebra printers, supplies, software and accessories, call your Zebra representative or visit our web site at: <http://www.zebra.com>.



- Produce high-resolution graphics, text and bar codes
- Print small, high-quality labels to identify and/or track small components and products
- Maintain label registration on black mark or die-cut media, using dual media sensors

### Industry/application overview

- Electronics assembly/manufacturing
- Pharmaceutical manufacturing/distribution
- Any mission-critical application requiring small, high-resolution labels



When it's on the line.™

# 90XiII Functional Overview\*

## STANDARD FEATURES

### PRINT SPECIFICATIONS

- **Print Method/s** Thermal transfer or direct thermal
- **Max. Width** 3.4" (87mm) 300dpi  
3.2" (81.6mm) 600dpi
- **Max. Length** 20.0" (508mm) 300dpi  
(W/Std. Mem.) 12.0" (305mm) 600dpi
- **Resolution** 300dpi (12 dots/mm) standard  
600dpi (23.5 dots/mm)
- **Max. Speed** 8.0"/sec. (203mm/sec.) 300dpi  
4.0"/sec. (101mm/sec.) 600dpi

### PHYSICAL CHARACTERISTICS

- **Depth** 19.5" (495mm)
- **Width** 9.15" (232.4mm)
- **Construction** 12-gauge steel frame
- **Height** 15.5" (393.7mm)
- **Weight** 50 lbs. (22.7kg)

### RELATED FEATURES

- Transmissive media sensor
- Reflective media sensor
- Dual 32-bit RISC and CISC microprocessors
- 1MB standard RAM (2MB with 600dpi)
- PC card interface
- Multilingual backlit LCD display

### ZPLII® PROGRAMMING LANGUAGE

- Universal language for Zebra printers. Makes label formatting and modification simple. Allows compatibility with other Zebra printers.

## OPERATING CHARACTERISTICS

### ENVIRONMENT

- **Operating Temp.** 41°F (5°C) to 104°F (40°C)  
(for thermal transfer)
- **Operating Temp.** 32°F (0°C) to 104°F (40°C)  
(for direct thermal)
- **Storage Temp.** -40°F (-40°C) to 140°F (60°C)
- **Operating Humidity** 20-85% non-condensing
- **Storage Humidity** 5-85% non-condensing

### ELECTRICAL

- Universal power supply with power factor correction 90-264 VAC; 48-62 Hz

### COMMUNICATION INTERFACE CAPABILITIES

- RS-232/422/485 serial port
- Centronics®-compatible parallel port

### AGENCY APPROVALS

- CISPR 22-B; UL 1950; IEC 950; CSA 950-95; FCC (Class A); Canadian Doc. (Class A); EN 60950; 1995; EN 50082-1; 1992; EN 61000-3-2,-3-3; CE Compliance

## MEDIA CHARACTERISTICS

### MEDIA SPECIFICATIONS

- **Width** 0.79" (20mm) to 3.54" (90mm)
- **Thickness** 0.003" (0.076mm) to 0.012" (0.304mm)
- **Max. Roll Size** 8.0" (203mm) O.D. on a 3" (76mm) I.D. core
- **Media Type** Continuous, die-cut or black mark

### RIBBON SPECIFICATIONS

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

- **Width** 0.79" (20mm) to 3.4" (87mm)
- **Standard Lengths** 984' (300m) or 1,476' (450m)
- **Maximum Roll Size** 3.2" (81mm) O.D. on a 1.0" (25.4mm) I.D. core
- **Ribbon Wound Coated-Side Out**

## FONTS / GRAPHICS / SYMBOLOGIES

### CHARACTER FONTS/SETS

- **CHR Fonts** Standard: 7 bitmapped, 1 scalable (CG Triumvirate™ Bold Condensed)
- **CHR Sets** IBM® Code Page 850 multilingual character set

### GRAPHIC FEATURES

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

### BAR CODE SYMBOLOGIES

- **One-Dimensional**  
Code 11, Code 39, Code 93, Code 128 with subsets A/B/C and UCC Case Codes, Codabar, ISBT 128, UPC-A, UPC-E, EAN-8, EAN-13, Postnet, EAN and UPC with 2 or 5 digit supplements, Interleaved 2 of 5, Industrial 2 of 5, Standard 2 of 5, LOGMARS, Plessey, MSI
- **Two-Dimensional**  
CODABLOCK, PDF-417, Code 49, MaxiCode, Datamatrix, QR, Micro PDF

## OPTIONAL FEATURES

### OPTIONS/ACCESSORIES

- **Scalable and international fonts**
- **Clear door** (free factory-selectable option)
- **Label peel** (full roll liner rewind)
- **Cutter** (cuts full width media - not available with 600dpi)
- **Rewind** (full label roll onto core)
- **Expanded memory** (up to maximum 9MB)
- **ZebraNet™ MPS** (provides Ethernet connectivity)
- **Media Supply Spindle standard with 600dpi** (in lieu of standard hanger)
- **PC card** (8MB)
- **IBM® Twinax interface** (emulates IBM® System 3X and AS/400 printers)
- **IBM® Coax interface** (emulates IBM® System 3270 printers)
- **BAR-ONE® software** (Zebra's Windows™-based label design and printing software)
- **Applicator interface**
- **Internal Fan-Fold Media Supply Bin**

## UL/CSA Marking Label



This shipping label is one example of the many application labels the 90XiII can print.



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\*Specifications listed are for base model printers with standard features only unless otherwise noted. Ask your Zebra representative for detailed specs for the printer recommended for your application.

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