

# Zebra® Xi™ Series

High-Performance Bar Code Printers



## Higher Levels of Labeling

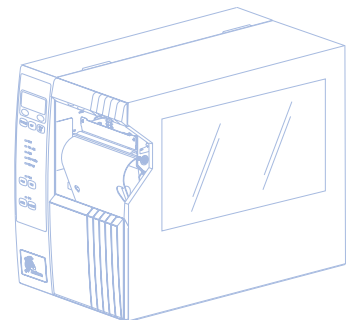
Providing superior performance, longevity, and solid value, the Xi series offers rugged durability, dependability, and unparalleled reliability in high-volume, mission-critical and specialty labeling solutions. These printers insure investment protection by offering more standard features and total options than competitive printers: 203-, 300-, and 600-dpi resolution for paper, synthetic, and specialty stocks; 4-, 5.5-, 6-, and 8-inch print widths; super-quick processors for fast throughput and processing; and plenty of memory for more label formats, graphics, fonts, and data. *XiIIIPlus*™ printers also offer more connectivity and control options with XML-Enabled printing and advanced management capabilities for real-time monitoring of Zebra printers and ZebraNet® wireless and wired print servers. It's easy to see why *XiIIIPlus* printers take high performance to an all-new level!

## Everything you count on with Zebra's Xi series printers, plus more!

Zebra's Xi series is known for its proven performance. With more standard features and more resolution and connectivity options, plus industry-leading Zebra service and support, it would be hard to find a bar code labeling need that the *XiIIIPlus* printers couldn't meet or exceed.

*XiIIIPlus* printers from Zebra offer revolutionary features including:

- 32 bit 133 MHz RISC processor for faster throughput and processing
- Increased 16 MB SDRAM memory for printing longer label formats
- CompactFlash® (up to 256 MB memory) for added label format/font storage
- 4 MB non-volatile Flash memory
- Early service warning for printhead maintenance and ribbon/media changes
- 300 distinct darkness settings—for fine-tuning print quality



# Xi Series

## ZebraLink™ Solutions

### Software

*ZebraDesigner™ Pro*—Windows®-based label design software for simple label creation.

*ZebraDesigner for XML*—Easy-to-use label design software for printing on XML-Enabled printers.

*ZebraNet™ Bridge Enterprise*—Centrally manage Zebra printers from a single PC screen anywhere on your global network.

*ZebraNet Utilities v 7.0*—Fully-featured administration package features *View*, for user-friendly automatic printer location; *Alert*, for event alerts sent based on users' roles; and more.

*ZBI-Developer™*—Intuitive programming utility used to create, test and distribute ZBI 2.0™ applications.

### Networking

*ZebraNet® Internal Wireless Plus*—delivers wireless security and supports 802.11b/g.

*ZebraNet 10/100 Print Server*—Provides a complete wired solution for 10Base-T, 100Base-TX, and fast Ethernet 10/100 auto-switching networks.

### 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 out of the box.

*APL™*—Allows integration of the Xi series printers into mixed printer environments without format re-programming (available in 203-dpi printers only).

*XML-Enabled printing*—Direct-connect integration of Zebra printers into most ERP systems cuts programming costs.

*ZBI 2.0™*—Optional, powerful programming enhancement that lets printers run stand-alone applications, connect to peripherals, and much more.



**110XiIIIPlus™—203/300 dpi**

The 110XiIIIPlus, with 203- or 300-dpi printhead, offers flexibility and affordability. Starting at just \$2,995 (U.S. list), the variable-width 110XiIIIPlus prints up to 4 inches wide, making it ideal for shipping, warehousing, and manufacturing. For crisp, high-quality printing on small product labels, order the 110XiIIIPlus with 300-dpi printhead.

#### MAXIMUM PRINT AREA

Width: 4.09"/104 mm  
Length (with standard memory):  
39"/991 mm

#### RESOLUTION

203 dpi/8 dots per mm;  
300 dpi/12 dots per mm

#### MAXIMUM PRINT SPEED

203 dpi: 10"/254 mm per second;  
300 dpi: 8"/203 mm per second

#### PHYSICAL CHARACTERISTICS

Width: 10.37"/263.5 mm  
Depth: 19.5"/495.3 mm  
Height: 15.5"/393.7 mm  
Weight: 50 lbs./22.7 kg

#### MEDIA SPECIFICATIONS

Label and liner width: .79"/20 mm to  
4.5"/114 mm  
Ribbon width: .79"/20 mm to  
4.33"/110 mm

In North America, the 110XiIIIPlus has an RFID Ready option that allows you to upgrade to RFID technology in the future.



**110XiIIIPlus—600 dpi**

The affordable 110XiIIIPlus with 600-dpi printhead is unmatched at printing precise bar codes, text, and graphics in limited label space. An outstanding value, this printer is ideal when you require extremely high resolution and density—for specialty labeling, such as electronic components, telecommunication assemblies, medical devices, pharmaceutical vials, and more.

#### MAXIMUM PRINT AREA

Width: 3.2"/81 mm  
Length (with standard memory):  
39"/991 mm

#### RESOLUTION

23.5 dots per mm

#### MAXIMUM PRINT SPEED

4"/102 mm per second

#### PHYSICAL CHARACTERISTICS

Width: 10.37"/263.5 mm  
Depth: 19.5"/495.3 mm  
Height: 15.5"/393.7 mm  
Weight: 50 lbs./22.7 kg

#### MEDIA SPECIFICATIONS

Label and liner width: .79"/20 mm to  
4.5"/114 mm  
Ribbon width: .79"/20 mm to  
4.33"/110 mm

## Xi Series



**140XiIIIPlus™**

The 140XiIIIPlus gets the job done fast, printing at up to 12 inches per second. With such powerful performance and steel construction, it is the ideal choice for high-volume, mission-critical applications with 24-hour duty cycles. The 140XiIIIPlus is also well suited for applications in which labels are required quickly, either on demand or in batches.

**MAXIMUM PRINT AREA**

Width: 5.04"/128 mm  
Length (with standard memory): 39"/991 mm

**RESOLUTION**

203 dpi/8 dots per mm

**MAXIMUM PRINT SPEED**

12"/305 mm per second

**PHYSICAL CHARACTERISTICS**

Width: 11.15"/283.2 mm  
Depth: 19.5"/495 mm  
Height: 15.5"/393.7 mm  
Weight: 55 lbs./25 kg

**MEDIA SPECIFICATIONS**

Label and liner width: 1.57"/40 mm to 5.51"/140 mm  
Ribbon width: 1.57"/40 mm to 5.1"/130 mm



**170XiIIIPlus™ 203/300 dpi**

The industrial-strength 170XiIIIPlus with 203- and 300-dpi print resolution has the ability to print labels up to 6.6 inches wide at 12 inches per second, promoting greater productivity with fewer roll changes. The 170XiIIIPlus can easily print large numbers of tough, information-rich AIAG, ODETTE, UCC/EAN-128 and other compliance labels on demand or in batches.

**MAXIMUM PRINT AREA**

Width: 6.6"/168 mm  
Length (with standard memory): 39"/991 mm

**RESOLUTION**

203 dpi/8 dots per mm  
300 dpi/12 dots per mm

**MAXIMUM PRINT SPEED**

203 dpi: 12"/305 mm per second  
300 dpi: 8"/203 mm per second

**PHYSICAL CHARACTERISTICS**

Width: 13.15"/334.4 mm  
Depth: 19.5"/495 mm  
Height: 15.5"/393.7 mm  
Weight: 67 lbs./30.5 kg

**MEDIA SPECIFICATIONS**

Label and liner width: 2"/51 mm to 7.1"/180 mm  
Ribbon width: 2"/51 mm to 6.7"/170 mm

In North America, the 170XiIIIPlus has an RFID Ready option that allows you to upgrade to RFID technology in the future.



**220XiIIIPlus™ 203/300 dpi**

The flexible, wide-web 220XiIIIPlus with 203- or 300-dpi can quickly print labels up to 8.5 inches wide at 10 inches per second or perform detailed, high-density printing of graphics or small fonts for labels, invoices, and other large documents. Ideal printing applications include chemical drum labels, primary metal standard labels, automotive industry labels, banner-sized labels, and pallet and container shipping labels.

**MAXIMUM PRINT AREA**

Width: 8.5"/216 mm  
Length (with standard memory): 39"/991 mm

**RESOLUTION**

203 dpi/8 dots per mm  
300 dpi/12 dots per mm

**MAXIMUM PRINT SPEED**

203 dpi: 10"/254 mm per second  
300 dpi: 6"/152 mm per second

**PHYSICAL CHARACTERISTICS**

Width: 15.65"/397.5 mm  
Depth: 19.5"/495 mm  
Height: 15.5"/393.7 mm  
Weight: 72 lbs./32.7 kg

**MEDIA SPECIFICATIONS**

Label and liner width: 4.25"/108 mm to 8.8"/224 mm  
Ribbon width: 4.25"/108 mm to 8.6"/220 mm





## Xi Series

Zebra's wide range of durable and reliable Xi series printers for nonstop environments is optimized for today's most demanding uptime requirements.

### Specifications at a Glance\*

#### STANDARD FEATURES

Print methods: Thermal transfer or direct thermal  
 Construction: 12-gauge steel frame  
 New processor for increased throughput and processing speeds  
 16 MB SDRAM; 4 MB non-volatile Flash memory  
 Advanced counters  
 Early warning system—indicates when to service printhead or change ribbons/media  
 300 unique darkness settings for print quality  
 USB 2.0 port for faster connectivity and throughput (plug and play)  
 Serial and parallel ports  
 Multilingual backlit LCD control panel  
 PCMCIA socket  
 CompactFlash Socket  
 Transmissive and reflective media sensors  
 Multi-level Element Energy Equalizer™ (E<sup>3</sup>™) for superior print quality  
 Unicode™ compliant  
 XML-Enabled printing—direct-connect integration for bar code label printing; eliminates license fees and print server hardware and lowers customization and programming costs

#### OPERATING CHARACTERISTICS

##### Environment

Operating Temperature:  
 41° F/5° C to 104° F/40° C (Thermal Transfer)  
 32° F/0° C to 104° F/40° C (Direct Thermal)  
 Storage/Transport Environ.: -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

USB 2.0 port (480 M bits/second)  
 RS-232C/422/485 multi-drop  
 Hi-speed, bi-directional, IEEE 1284 parallel interface

#### Agency Approvals

Bi-National UL 60950 Third Edition/CSA CAN/CSA-C22.2 No. 60950-00 Third Edition; IEC 950/EN60950: 1992 w/amendments 1 through 4 (CB Scheme); EN55022: 1998 Class B; EN55024: 1998; EN61000-3-2, 3 w/amendment A12; Canadian ICES-003, Class B, FCC Class B; Argentina 92/98 Phase 3; Australia AS/NZS 3548; R.O.C. CNS 13438; BSMI; CCC

#### MEDIA CHARACTERISTICS

##### Labels

Max. Roll Size: 8"/203 mm O.D. on a 3"/76 mm I.D. core  
 Thickness (label & liner): .003"/.076 mm to .012"/.305 mm  
 Media Types: Continuous fan fold, die-cut or black mark  
 For optimum print quality and printer performance, use genuine Zebra™ supplies.

##### Ribbons

Ribbon is recommended to be at least as wide as media.  
 Max. Roll Size: 3.2"/81.3 mm O.D. on a 1"/25.4 mm I.D. core  
 Standard Lengths: 1,476'/450 m or 984'/300 m; provides 3:1 & 2:1 media roll to ribbon ratios  
 Ribbon Setup: Ribbon wound ink side out

#### ZEBRALINK SOLUTIONS

##### Software

ZebraDesigner Pro  
 ZebraDesigner for XML  
 ZebraDesigner  
 ZebraNet Bridge Enterprise  
 ZebraNet Utilities v 7.0  
 ZBI-Developer  
**Networking**  
 ZebraNet® Internal Wireless Plus  
 ZebraNet Wireless Plus  
 ZebraNet 10/100 Print Server  
 ZebraNet PrintServer II  
 IBM® twinax/coax interface

##### Firmware

ZPL II®  
 Global Printing  
 APL  
 XML-Enabled  
 Web View  
 Alert  
 ZBI 2.0

#### FONTS/GRAPHICS/SYMBOLOLOGIES

##### Fonts and Character Sets

Standard Fonts: 7 bitmapped, 1 smooth scalable (CG Triumvirate™ Bold Condensed)  
 Contains UFST® from Monotype Imaging, Inc.  
 Sets: IBM® Code Page 850 International character set

##### Graphic Features

Supports user-defined fonts and graphics—including custom logos

##### Bar Code Symbolologies

Linear Bar Codes: Code 11, Code 39, Code 93, Code 128 with subsets A/B/C and UCC Case C Codes, ISBT-128, UPC-A, UPC-E, EAN-8, EAN-13, UPC and EAN 2 or 5 digit extensions, Plessey, Postnet, Standard 2-of-5, Industrial 2-of-5, Interleaved 2-of-5, Logmars, MSI, Codabar, Planet Code  
 2-Dimensional: Codablock, PDF417, Code 49, Data Matrix, MaxiCode, QR Code, MicroPDF417, TLC 39, GS1 DataBar (RSS), Aztec

#### OPTIONS AND ACCESSORIES

Rewind  
 Cutter (now available on all XiIIIPlus printers)  
 Bi-fold media door with clear panel  
 Label peel  
 Media supply spindle for 40 mm cores (not available on 220XiIIIPlus)  
 Scalable and international fonts  
 PC cards  
 CompactFlash (CF) card (not supported with ZebraNet Wireless Plus)  
 Applicator interface  
 64 MB On-Board Linear Flash Memory

\*Specifications subject to change without notice. ©2008 ZIH Corp. ZebraLink, ZebraDesigner, ZebraNet, ZBI 2.0, ZBI-Developer, APL, Element Energy Equalizer, E<sup>3</sup> and all product names and numbers are Zebra trademarks, and Zebra, the Zebra head graphic, ZebraNet, ZPL, and ZPL II are registered trademarks of ZIH Corp. All rights reserved. CompactFlash is a registered trademark of SanDisk Corporation. IBM is a trademark or registered trademark of International Business Machines Corporation in the United States, other countries, or both. CG Triumvirate and UFST are trademarks of Monotype Imaging, Inc. and may be registered in certain jurisdictions. Unicode is a trademark of Unicode, Inc. All other trademarks are property of their respective owners.



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