

Zebra® Z Series®



ZM400™ and ZM600™—Flexing New Powers

The ZM400 and ZM600 printers bring added flexibility to the popular Z Series platform, which has always stood out from the competition in terms of both performance and price. With 10-inches-per-second print speed, industry-leading throughput, rugged reliability, and a wide selection of options, these full-sized metal printers enhance productivity in tough environments and demanding applications.

Better Connected for a Connected World

The new Z Series printers better connect with most warehouse/manufacturing and business applications. The ZM400 and ZM600 are better connected to your network—through USB 2.0, 802.11b/g secure wireless, or our new ZebraNet® 10/100 Print Server that allows simultaneous parallel and Ethernet connectivity. They're better connected to your applications—with RFID Ready investment protection, choice of print resolution including 600 dpi, and XML-Enabled printing as a standard feature. And they're better connected to your needs—with easy setup via a large, easy-to-read front panel that includes Asian-language support; easy loading of supplies; and easy maintenance with quick-changing printheads and platens.



On top of the hard-working durability and easy use of these die-cast metal frame printers, the speed-optimized ZM400 and ZM600 are perfect for:

- Item Labeling and tagging
- Packaging/Pallet labeling
- Compliance labeling
- Inventory and asset management
- Shipping/Receiving
- Hospitality/Transportation ticketing
- Pharmacy/Healthcare labeling



Specifications at a Glance*

Standard Features

- Print methods: Thermal transfer or direct thermal
- Construction: Die-cast aluminum base, frame and printhead mechanism
- Metal media cover with large clear window
- Element Energy Equalizer™ (E³™) for superior print quality
- Auto-calibration
- Real-time clock
- Auto-ranging (90–265 VAC) power supply
- Color-coded operator cues
- Multi-language control panel with back-lit
- 240 x 128 pixel display
- ZPL II®
- 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

Printer Specifications

Resolution

203 dpi/8 dots per mm; 300 dpi/12 dots per mm; 600 dpi/24 dots per mm (ZM400 only)

Memory

- Standard: 8 MB Flash, 16 MB DRAM
- Optional: Factory Installed 64 MB Flash

Print Width

- ZM400: 4.09"/104 mm
- ZM600: 6.6"/168 mm

Print Length

- ZM400: with 203 dpi: 157"/3,988 mm; with 300 dpi: 73"/1,854 mm; with 600 dpi: 39"/991 mm
- ZM600: with 203 dpi: 102"/2,590 mm; with 300 dpi: 45"/1,143 mm

Print Speed

- 203 dpi: 10"/254 mm per second;
- 300 dpi: 8"/203 mm per second;
- 600 dpi: 4"/102 mm per second

Media Sensors

- Fixed reflective sensor
- Adjustable transmissive sensor media characteristics

Maximum Label and Liner Length

Maximum non-continuous: 39"/991 mm

Maximum Label and Liner Width

- ZM400: 4.5"/114 mm
- ZM600: 7.0"/178 mm

Maximum Roll Diameter

8.0"/203 mm

Core Diameter

3"/76 mm

Media Thickness

0.0023"/0.058 mm to 0.010"/.25 mm

Media Types

- Continuous, die-cut, tags, black-mark
- For optimum print quality and performance, use genuine Zebra™ supplies.

Ribbon Characteristics

Outside Diameter

3.2"/81.3 mm

Standard Length

984'/300 m or 1476'/450 m

Ratio

- 3:1 media roll to ribbon.
- Ribbon must be at least as wide as media

Width

- ZM400: 2.00"/51 mm to 4.33"/110 mm
- ZM600: 2.00"/51 mm to 6.85"/174 mm

Ribbon setup

- Ribbon wound ink-side out (ribbon wound ink-side in can be used with optional ribbon spindle on ZM400)

Core I.D.

1.0"/25.4 mm

Operating Characteristics

Environmental

- Operating temperature: 32° F/0° C to 104° F/40° C (Direct Thermal) 40° F/5° C to 104° F/40° C (Thermal Transfer)
- Storage temperature: -40° F/-40° C to 140° F/60° C
- Operating humidity: 20-85% non-condensing
- Storage humidity: 5-85% non-condensing

Electrical

Universal auto-ranging (PFC-compliant) power supply 90-265 VAC; 48-62Hz

Agency Approvals

- IEC 60950-1, EN55022 Class B, EN55024, EN61000-3-2,3
- Markings: cULus, CE Marking, FCC-B, ICES-003, VCCI, C-Tick, NOM, CCC, GOST-R, BMSI, S-Mark, MIC, ZIK

Physical Characteristics

- Width: 10.9"/278 mm
- Height: 13.3"/338 mm
- Depth: 18.7"/475 mm
- Weight: 32.4 lbs/15 kg
- Shipping weight: 49 lbs/22 kg

ZebraLink™ Solutions

Software

- ZebraDesigner™ Pro
- ZebraDesigner for XML
- ZebraNet™ Bridge Enterprise
- ZebraNet Utilities v 7.0
- Zebra Universal Driver
- ZBI-Developer™
- Additional scalable and bitmapped fonts available

Networking/Connectivity

- ZebraNet Wireless Plus
- ZebraNet 10/100 Print Server
- RS-232C serial port
- High-speed, IEEE1284, bi-directional parallel interface
- USB 2.0

Firmware

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

Fonts/Graphics/Symbologies

Fonts and Character Sets

- 7 bitmapped, 1 smooth scalable
- Native open type font support
- Global Printing—Unicode™ compliant for fast multi-language, on demand thermal printing right out of the box.
- Contains UFST® from Monotype Imaging Inc.

Graphic Features

- Supports user-defined fonts and graphics—including custom logos
- ZPL II drawing commands—for boxes and lines

Bar Code Symbologies

- Linear Bar Codes: Code 11, Code16k, Code 39, Code 93, Code 128 with subsets A/B/C and UCC Case C Codes, 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

- Factory installed 64 MB Flash memory option
- Cutter with catch tray
- Peel—a front mount, passive peel option with no liner take-up
- Liner take-up (works with peel option)—full roll liner take-up spindle (fits standard base, ZM400 only)
- Rewind—internally rewinds full label roll on 3" core (comes with taller, non-standard printer base)
- RS-422/485 serial port adapter
- Optional ribbon spindle to support ribbon wound ink-side in (ZM400 only)

*Specifications subject to change without notice.

©2010ZIH Corp. ZebraLink, ZebraDesigner, ZebraNet, APL, ZBI, ZBI-Developer, Element Energy Equalizer, E³, and all product names and numbers are Zebra trademarks and Zebra, the Zebra head graphic, Z Series, ZebraNet and ZPL II are registered trademarks of ZIH Corp. All rights reserved. Unicode is a trademark of Unicode, Inc. UFST is a trademark of Monotype Imaging Inc. and may be registered in certain jurisdictions. All other trademarks are the property of their respective owners. For optimal printing quality and proper printer performance across our product line, Zebra strongly recommends the use of genuine Zebra supplies as part of the total solution. Specifically, the ZM400 and ZM600 are designed to work only with genuine Zebra™ printheads, thus maximizing safety and print quality.



www.zebra.com

Corporate Headquarters

+1 800 423 0442

E-mail: inquiry4@zebra.com

Asia-Pacific Headquarters

+65 6858 0722

E-mail: apacchannelmarketing@zebra.com

EMEA Headquarters

+44 (0)1628 556000

E-mail: mseurope@zebra.com

Latin America Headquarters

+1 847 955 2283

E-mail: inquiry4@zebra.com

Other Locations

USA: California, Georgia, Rhode Island, Texas, Wisconsin **Europe:** France, Germany, Italy, Netherlands, Poland, Spain, Sweden **Asia Pacific:** Australia, China, India, Japan, South Korea **Latin America:** Argentina, Brazil, Florida (USA), Mexico **Africa/Middle East:** Russia, South Africa, United Arab Emirates

GSA#: GS-35F-0268N
P1028476 Rev. 21 (12/10)