

# 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™ (E<sup>3</sup>™) 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® Internal Wireless Plus
- ZebraNet Wireless Plus
- ZebraNet 10/100 Print Server
- ZebraNet PrintServer II (external)
- 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.

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