

Zebra® Z Series®

The Price-Performance Leaders



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.

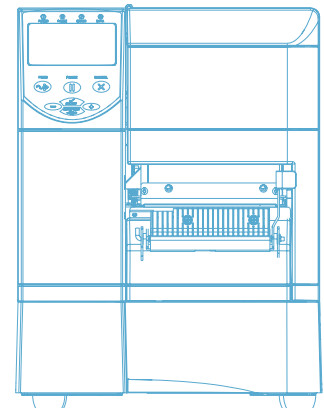
Better Connected for a Connected World

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. 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:

- Work in process
- Order fulfillment
- Compliance labeling
- Distribution
- Warehouse management
- Shipping/Receiving
- Hospitality/Transportation ticketing
- Pharmacy/Healthcare





ZM400 ZM600

Delivering quick first label out, shorter print times, and application flexibility, Z Series printers are unbeatable for enhancing productivity and the bottom line.

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^{3B}) 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

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

4.5"/114 mm—ZM400
 7.0"/178 mm—ZM600

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

2.00"/51 mm to 4.33"/110 mm

Ribbon setup

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

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

IEC60950-1, EN55024, EN61000-3-2, EN61000-3-3, EN 55022 Class B
 Markings: cTUVus, CE, FCC-B, ICES-003, VCCI, C-Tick, NOM, CCC, GOST-R, BSMI, S-Mark (Arg), SABS, 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
 Additional scalable and bitmapped fonts available

Networking/Connectivity

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

Firmware

ZPL II®
 EPL™
 XML-enabled Printing
 APL™
 Web View
 Alert

FONTS/GRAPHICS/SYMBOLOLOGIES

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 Symbolologies

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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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™ print-heads, thus maximizing safety and print quality.



GLOBAL/AMERICAS HEADQUARTERS

Zebra Technologies Corporation
 333 Corporate Woods Parkway
 Vernon Hills, IL 60061-3109 U.S.A.
 T: +1 847 793 2600 or
 +1 800 423 0442
 F: +1 847 913 8766

EMEA HEADQUARTERS

Zebra Technologies Europe, Limited
 Zebra House, Unit 14, The Valley Centre
 Gordon Road, High Wycombe
 Buckinghamshire HP13 6EQ, UK
 T: +44 (0) 494 472872
 F: +44 (0) 494 450103

ASIA-PACIFIC HEADQUARTERS

Zebra Technologies Asia Pacific, LLC
 16 New Industrial Road
 #05-03 Hudson TechnoCentre
 Singapore 536204
 T: +65 6858 0722
 F: +65 6885 0838

OTHER LOCATIONS » USA California, Rhode Island, Texas, Wisconsin EUROPE France, Germany, Italy, Netherlands, Poland, Spain, Sweden
 ASIA-PACIFIC Australia, China, Japan, South Korea LATIN AMERICA Florida (USA), Mexico AFRICA/MIDDLE EAST South Africa, United Arab Emirates



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The Best in Class Just Got Better

Price-competitive, rugged Z Series® metal printers have always been the price-performance leaders in their class. Offering 10-inches-per-second print speed, fast throughput, and rugged reliability, these industrial/commercial workhorses enhance productivity in a wide range of warehouse, manufacturing, and business applications. Now, the ZM400 and ZM600 printers offer more options to meet an even wider array of applications and needs.



Zebra® ZM400™ / ZM600™ Printers

Better Connected for a Connected World™



Flexing More Powers

The ZM400 and ZM600 printers bring new flexibility to the solid and popular Z Series platform to better connect with a connected world.

- Better connected to your network
 - » USB 2.0—For plug-and-play simplicity
 - » Secure 802.11b/g wireless—Advanced authentication and encryption supporting Cisco's CB21AG and Motorola's LA-4137CF radio cards
 - » ZebraNet® 10/100 Print Server—Fast LAN connectivity with simultaneous parallel and Ethernet operability
- Better connected to your applications
 - » Engineered RFID Ready for smooth transition to smart label encoding
 - » 600 dpi availability—High-density printing for increased print clarity
 - » APL-I™/APL-D™—Alternate Programming Language allows ZM400/ZM600 to print legacy label formats on select Datamax and Intermec printers. For additional Datamax compatibility, ZM400 has an optional ribbon spindle that supports ribbon wound ink-side in.
 - » XML-enabled printing option—For easy, direct-connect integration with ERP applications
- Better connected to your needs
 - » Large, backlit LCD—Easy to read with intuitive menu commands for quick printer configuration
 - » Multi-lingual capabilities—Unicode™-compliant printing, plus menu commands translated into 15 languages, offer a one-printer solution for worldwide distribution facilities
 - » Quick and easy replacement of platen and field-installable printhead—Requires no tools and only limited technical knowledge

Variety of Applications

Paired with performance-matched genuine Zebra™ supplies for optimal printing performance, the ZM400/ZM600 are perfect for many industries and applications, including: work in process, compliance labeling and warehouse management.

Quick Specs*

Print Methods

Thermal transfer or direct thermal

Resolution

203 dpi/8 dots per mm

Optional: 300 dpi/12 dots per mm

Optional: 600 dpi/24 dots per mm (ZM400 only)

Maximum Print Speed

203 dpi: 10"/254 mm per second;

300 dpi: 8"/203 mm per second;

600 dpi: 4"/102 mm per second

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

For a Total Zebra Solution

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.

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HEADQUARTERS

Zebra Technologies International, LLC **T:** +1 847 793 2600 or +1 800 423 0442 **F:** +1 847 913 8766
ADDRESS: 333 Corporate Woods Parkway, Vernon Hills, IL 60061-3109 U.S.A. **WEB:** www.zebra.com

OTHER LOCATIONS

USA: California, Rhode Island, Texas, Wisconsin **EUROPE:** France, Germany, Italy, Netherlands, Poland, Spain, Sweden, United Kingdom **ASIA-PACIFIC:** Australia, China, Japan, Singapore, South Korea
LATIN AMERICA: Florida (USA), Mexico **AFRICA/MIDDLE EAST:** South Africa, United Arab Emirates



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Zebra® Product Positioning Guide



To help position the enhanced Z Series® printers within the existing Zebra product portfolio, we've put together a quick-reference chart, highlighting the key features of the new printers and how they compare with the existing Zebra mid-range products.

						
Model	S4M™	ZM400™	ZM600™	105SL™	110XiIIIPlus™	170XiIIIPlus™
Max. print width	104mm	104mm	168mm	104mm	104mm	168mm
Labels per day	2500	4000	4000	7500	Unlimited	Unlimited
Printhead resolution	203, 300dpi	203, 300, 600dpi	203, 300dpi	203, 300dpi	203, 300, 600dpi	203, 300dpi
Max. print speed	152mm/s	254mm/s	254mm/s	203mm/s	254mm/s	305mm/s
Printer languages	ZPL®, EPL™, APL-I™, APL-D™	ZPL, EPL, XML, APL-I, APL-D	ZPL, EPL, XML, APL-I, APL-D	ZPL, APL-I, APL-D	ZPL, XML, APL-I, APL-D	ZPL, XML, APL-I, APL-D
Standard connectivity	Serial, parallel, USB 1.1	Serial, parallel, USB 2.0	Serial, parallel, USB 2.0	Serial, parallel	Serial, parallel, USB 2.0	Serial, parallel, USB 2.0
Optional connectivity	Ethernet, wireless	Ethernet, wireless	Ethernet, wireless	Ethernet, wireless, twinax, coax	Ethernet, wireless, twinax, coax	Ethernet, wireless, twinax, coax
Quick facts						
LCD display	✓	✓	✓	✓	✓	✓
Printer construction material	Metal	Metal	Metal	Metal	Metal	Metal
Standard flash (total)	4MB	8MB	8MB	4MB	4MB	4MB
Standard RAM (total)	8MB	16MB	16MB	6MB	16MB	16MB
Physical features						
Footprint (D x W x H)	477mm x 272mm x 295mm	475mm x 278mm x 338mm	475mm x 341mm x 338mm	495mm x 283mm x 394mm	495mm x 263mm x 393mm	495mm x 334mm x 393mm
Weight	12.4kg	15kg	16kg	25kg	22.7kg	30.5kg
Media						
Min. media width	19.4mm	25.4mm	51mm	20mm	20 mm	51mm
Media handling options	Peel	Peel, rewind, cut	Peel, rewind, cut	Peel, rewind, cut	Peel, rewind, cut	Peel, rewind, cut

Gain more revenue from supplies



Genuine Zebra™ supplies prolong the life and improve the performance of a Zebra printer. In the table below, we've listed the label materials available in our ZipShipSM range, for which we have many label sizes to fit the new Z Series printers. For more information, refer to the ZipShip price lists available on www.accesszebra.com

Supplies for Z Series

Product name	TT/DT	Description	Key feature(s)	Government	Logistics	Healthcare	Manufacturing	Post and Parcel	Retail	Utilities	Hospitality, Service & Leisure	Suggested ribbon (standard)	Suggested ribbon (high durability)	Max. print speed (mm/sec)
Z-Perform™ 1000D	DT	Economy paper label with general-purpose permanent adhesive	Low-cost		✓			✓	✓					102
Z-Perform 1000T	TT	Economy paper label with general-purpose permanent adhesive	Low-cost		✓		✓	✓				2300/5319	2100	152
Z-Select™ 2000D	DT	Premium paper label with general-purpose permanent adhesive	Excellent image quality; good moisture-resistance		✓	✓		✓	✓	✓				203
Z-Select 2000T	TT	Premium paper label with general-purpose permanent adhesive	Superb image quality; high print speeds	✓	✓	✓	✓	✓				2300/2100/5319	3400/3200	305
8000T All-Temp	TT	Premium paper label with all-temperature permanent adhesive	Superb image quality; high print speeds; wide-temperature-range adhesive		✓		✓					2300/2100/5319	3400/3200	254
PolyE 3000T Gloss	TT	Gloss white polyethylene label with general-purpose permanent adhesive	Recyclable with pallet shrinkwrap; low-cost synthetic; good tear-resistance compared to paper labels		✓		✓		✓			4800	5095	102
Z-Ultimate® 3000T White	TT	Gloss white polyester label with general-purpose permanent adhesive	Excellent resistance to high temperatures, water and many chemicals			✓	✓			✓		4800/5095	5100	152
Z-Ultimate 3000T Silver	TT	Gloss silver polyester label with general-purpose permanent adhesive	UL/CSA acceptances when matched with Zebra 4800, 5095 and 5100 ribbons				✓					4800/5095	5100	152
Z-Band® Direct	DT	Polypropylene wristband with permanent adhesive	Tamper-evident security slits; good resistance to water and most soaps and cleaning agents			✓					✓			102
Z-Band 4000	TT	Gloss polyester wristband with permanent adhesive	More durable and resistant solution; use with Zebra 5095 resin ribbon			✓					✓	5095	5095	102
8000T Z-Destruct™ PE	TT	White polyethylene label that breaks apart when label is removed	Destructible facestock and aggressive adhesive giving tamper-evident feature; indoor use only	✓			✓					4800/5095	4800/5095	51

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Zebra Technologies – EMEA Headquarters

Zebra Technologies Europe Limited, Zebra House, The Valley Centre, Gordon Road, High Wycombe, Buckinghamshire HP13 6EQ, UK
 Tel: +44 (0)1494 472872 Fax: +44 (0)1494 768251 E-mail: mseurope@zebra.com

Other EMEA Locations

Europe: France, Germany, Italy, the Netherlands, Poland, Spain, Sweden Middle East & Africa: Dubai, India, South Africa