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# ZEBRA® GT800™ PRINTER SPECIFICATIONS



Specifications are provided for reference and are based on printer tests using Genuine Zebra™ supplies. Results may vary in actual application settings or when using other-than-recommended Zebra supplies. Zebra recommends always qualifying any application with thorough testing.

## Standard Features

- 300 meter ribbon capacity
- 32 bit RISC processor
- 5 ips maximum print speed
- ZPL II® programming language
- EPL2™ programming language
- Triple connectivity: Serial, USB and Parallel
- OpenACCESS™ design for easy media loading
- 203 dpi print resolution (8 dots/mm)
- 4.09" print width
- Direct Thermal (d) and Thermal Transfer (t) printing of barcodes, text and graphics
- 8 MB of Flash memory
- 8 MB SDRAM
- Head-up sensor
- Multi-position transmissive and full-width reflective sensor
- 5" outside diameter media capability
- Fan-fold media feed slot
- 5 resident expandable bitmap fonts (USA, European)
- Multiple DOS and Windows® codepage support
- Windows drivers
- Printer utilities
- Linear & 2-D barcode symbologies
- ENERGY STAR® 2.0 qualified

## Optional Features

- 300 dpi print resolution (12 dots per mm)
- Cutter:
  - Continuous paper, lined label and tag stock
  - Maximum thickness 0.0069" (0.175 mm)

## Accessories

- ZKDU™ – keyboard display unit for ZPL
- KDU Plus™ – full-size keyboard with LCD for stand-alone printing applications

## ZebraLink™ Solutions

### Software

- **Document Design** – Quickly design a customized print solution using your business data and Zebra's intuitive, plug-and-print design tools
- **Printer Integration** – Zebra offers apps and products designed to help you integrate Zebra devices into your existing systems
- **Printer Management** – Manage your print operations locally and globally with Zebra's suite of device management tools
- **Developer Tools** – Provides you with the tools you need to create your own apps, including documentation, source code, programming languages, templates and more
- **Zebra Setup Utility** – Single printer configuration utility
- **ZebraDesigner™** – Windows Driver: Microsoft certified for Windows Vista®, Windows 7, Windows 8 Windows 8.1, Windows 2008, and Windows 2012 (downloadable from [www.Zebra.com](http://www.Zebra.com))

### Networking Options

- Ethernet - 10/100 internal offered in combination with USB & Serial interface (replaces Parallel port)



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## Firmware

- EPL2 – Eltron Programming Language simplifies label formatting and enables format compatibility with legacy applications
- ZPL II – Universal language for Zebra printers. Simplifies label formatting and enables format compatibility with existing systems that run Zebra printers
- Web View – Connect and control Zebra barcode printers via the printer’s Web interface using a common Web browser (ZPL mode)
- Alert – Printers equipped with ZebraNet® print servers will notify you via any email-enabled, wired, or wireless device to minimize downtime (ZPL mode)

## Printing Specifications

- Resolution: 203 dots/inch (dpi) (8 dots/mm)
- Dot pitch: 0.0049" (0.125 mm)
- Maximum print length: 39.0" (991 mm)
- Minimum print length: 0.005" (0.125 mm – one dot)
- Maximum print width: 4.09" (104 mm)
- Minimum print width: 0.005" (0.125 mm – one dot)
- Programmable print speed: 2, 3, 4, 5 ips (51, 76, 102, and 127 mm/s) at 203 dpi
- Barcode modulus “X” dimension: 5 mil to 50 mil
- Optional 300 dpi print resolution (12 dots/mm)

## Media Specifications

- Media Width: .75 - 4.49" (19.1 - 114 mm)
- Label Length:
  - Minimum 0.25" (6.4 mm - non peel)
  - Minimum 1" (25.4 mm - with cutter)
  - Minimum 0.38" (9.7 mm - with peeler)
  - Maximum 39" (991 mm)
- Core Diameter – .4375 - 1.5" (11.11 - 38 mm)
- Max Roll Diameter – 5.00" (127 mm)
- Media Thickness – 0.003 - 0.007" (0.08 - 0.18 mm)
- Media Sensing – gap, black line, notch
- Media Type:
  - Roll-fed or fan-fold
  - Label stock (die cut or continuous, direct thermal or thermal transfer)
  - Tag stock (die cut or continuous, direct thermal or thermal transfer)
  - Receipt paper (continuous, direct thermal)
  - Wristband stock (direct thermal or thermal transfer)

## Ribbons/Ribbon System

- Ribbon Width: 1.33 - 4.3" (33.8 – 109.2 mm)
- Ribbon Capacity: 1 ribbon roll per 4 rolls of media (300 M); 1 ribbon roll per roll of media (74 Meter);
- Meter Ribbon OD: 300 Meter Ribbon 2.6" (66 mm); 74 Meter Ribbon 1.34" (34 mm)
- Core ID: 300 Meter Ribbon 1.0" (25.4 mm); 74 Meter Ribbon 0.5" (12.7 mm)
- Max Ribbon Length: 984' (300 Meter) using 0.000328" ribbon thickness
- Ribbon Type: wax, wax/resin and resin

## ZPL Programming Language (ZPL/ZPL II)

- Communicates in printable ASCII characters
- Compatible with mainframe, mini and PC hosts
- Downloadable objects include graphics and bitmap fonts, label templates and formats
- Automatic memory allocation for format while printing
- Automatic serialization of fields
- Format inversion (white on black)
- Mirror-image printing
- Four position field rotation (0°, 90°, 180°, 270°)
- Slew command
- Programmable label quantities with print, pause
- Status messages to host upon request

## ZPL Font Specifications 203 dpi (8 dots/mm)

Font	Matrix (in dots) (H x W)	Type*	Minimum Char. Size (H x W)	Maximum CPI
A	9 x 5	U-L-D	.044" x .030"	33.3
B	11 x 7	U	.054" x .044"	22.7
C,D	18 x 10	U-L-D	.089" x .059"	16.9
E	28 x 15	OCR-B	.138" x .098"	10.2
F	26 x 13	U-L-D	.128" x .079"	12.7
G	60 x 40	U-L-D	.295" x .236"	4.2
H	21 x 13	OCR-A	.103" x .093"	10.8
GS	24 x 24	SYMBOL	.118" x .118"	8.5
P-V		U-L-D	Backward compatible w/ S-300	
Ø	15 x 12	U-L-D	Scalable (Smooth) Font	

\*U = upper case, L = lower case, D = descenders

- Character Fonts: Standard bitmapped Zebra fonts: A, B, C, D, E (OCR-B), F, G, H, (OCR-A), GS, P, Q, R, S,



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T, U, V & Ø Smooth font (CG Triumvirate™ Bold Condensed\*)

- Supports user-defined fonts and graphics, including custom logos (2 MB Flash memory)
- Bitmap fonts are expandable up to 10 times, height and width independent. Fonts E and H (OCR-B and OCR-A), however, are not considered in spec when expanded
- Smooth scalable font Ø (CG Triumvirate Bold Condensed\*) is expandable dot-by-dot, height and width independent, while maintaining edges to a max. 1500 x 1500 dots

\*Contains UFST® from Agfa Monotype Corporation

## ZPL Barcode Symbolologies

- **Barcode ratios:** 2:1 (non-rotated) and 3:1
- **Linear barcodes:** Code 11, Code 39, Code 93, Code 128, UPC-A, UPC-E, EAN-8, EAN-13, EAN-14, UPC-A and UPC-E with EAN 2 or 5 digit extensions, Plessey, POSTNET, Standard 2 of 5, Industrial 2 of 5, Interleaved 2 of 5, LOGMARS, MSI, Codabar, and GS1 DataBar™ (formerly RSS)
- **2-dimensional barcodes:** PDF417, MicroPDF-417, Code 49, Maxicode, Codablock, Data Matrix, QR code, and Aztec

## EPL Programming Language (EPL2)

- ASCII EPL2 programming language (Page Mode)
- Field Rotations
- Variable field support (up to 100)
- Counter support (up to 10)
- Variable field addition and subtraction
- Status reporting
- Form, fonts and graphics storage
- Simple set of formatting commands
- Support of selected barcodes

## Font Specifications

Type	Width	Height	Sp	CPI	Chars
Font1	8	12	2	20.3	160
Font2	10	16	2	16.9	160
Font3	12	20	2	4.5	160
Font4	14	24	2	12.7	160
Font5	32	48	4	5.6	80

## EPL Barcodes Symbolologies

- **Linear barcodes:** Code 39, Code 128A, B & C (User selectable/Auto), UCC/EAN-128, Code 93, Codabar, Interleaved 2 of 5, UPC-A, UPC-E, UPC-A with 2 and 5 add on, UPC-E with 2 and 5 add on, EAN 13, EAN 8, EAN 13 with 2 and 5 add on, EAN 8 with 2 and 5 add on, Postnet (5, 9, 11, & 13 digit) Japanese Postnet, Plessey (MSI-1), MSI-3, German Post Code, RSS-14 (limited, truncated, stacked)
- **2-dimensional barcodes:** Maxicode (modes 2,3,4,6), PDF417 (MicroPDF417 and MacroPDF417), Data Matrix

## Code pages supported:

- DOS: 437, 850, 851, 852, 855, 857, 860, 861, 862, 863, 865, 866, 869, 737, Big 5, GB2312, GB18030
- Windows: 1250, 1251, 1252, 1253, 1254, 1255, 1256, and 1257

## Interface/Connectivity Types

- Serial – RS232:
  - Software selectable
    - o baud rate (default 9600)
    - o parity (default none)
    - o data length (default 8)
    - o stop bit (default 1)
  - Flow control – hardware and software
  - Connector: DB-9 Type: 9 pin D Sub connector female (standard)
  - Includes +5 VDC- 160 mA power output capability
- Parallel:
  - Centronics
  - Connector: 36 Pin
  - Includes +5VDC – 300mA power output capability
- USB:
  - Version 1.1, bi-directional
  - Supported in Win98 and Win98SE, Win Me and Windows 2000 platforms
  - Connector – Type B Female
- Internal 10/100 Ethernet – optional (replaces Parallel port)



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### Electrical Specifications

- Auto-ranging external power supply with C7 type connector
- Output: 20 VDC, 2.5A
- Input: 100-240 VAC, 50-60 Hz
- ENERGY STAR 2.0 qualified

### Agency Approvals

TUV-R NRTL, TUV-R CB, NOM, KCC, CE, FCC Class-B

### Physical Specifications

	GT800
Height	7.25" (184 mm)
Width	7.75" (197 mm)
Depth	10.75" (273 mm)
Weight	5.8 lbs (2.63 kg)

### Operating Environment

- Operating Temperature: 40°F to 105°F; (5°C to 41°C)
- Storage Temperature: -40°F to 140°F; (-40°C to 60°C)
- Operating Humidity: 10% to 90% non-condensing
- Storage Humidity: 5% to 95% non-condensing

### Preventative Maintenance

Zebra recommends cleaning the printer on a regular basis using standard Zebra cleaning supplies. Refer to the User's Guide for more details.

### Cleaning

The exterior is cleaned with a lint-free cloth, and if necessary, a mild detergent solution or desktop cleaner can be used. Interior components (printhead, platen, media path, and dispenser bar) are cleaned with alcohol or blown air.

### Media Registration

Media registration and minimum label length are affected by media type, width and print speed. Performance improves as these factors are optimized. Zebra recommends always qualifying any application with prior testing.



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