

ZD230TA Printer Specifications

Specifications are provided for reference and are based on printer tests using Zebra brand 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

- 6 ips (152 mm per second) maximum print speed
- ZPL II® and EPL2™ programming languages
- Connectivity: USB 2.0
- OpenACCESS™ design for easy media loading
- 203 dpi print resolution (8 dots/mm)
- 104 mm print width
- Direct thermal and thermal transfer printing of barcodes, text and graphics
- 8 MB of Flash memory
- 16 MB SDRAM
- Head-up sensor
- Multi-position transmissive and full-width reflective sensor
- 127 mm outside diameter media capability
- Fan-fold media feed slot
- Unicode compliant for multi-language printing
- 16 resident expandable ZPL II® bitmap fonts
- Three resident scalable ZPL fonts
- Multiple DOS and Windows® codepage support
- Windows drivers
- Printer utilities
- Linear and 2-D barcode symbologies
- ENERGY STAR® Certified, meets Energy Efficiency Level VI
- Two-year standard warranty



Optional Features

- 300 dpi print resolution (12 dots/mm)
- White color scheme

Accessories

- Optional media core adapters are available to accommodate 12.7 mm, 25.4 mm and 38.1 mm core sizes.

Software

- Zebra Setup Utilities — easily set up, configure and manage printers
- ZebraDesigner Essentials — easily design, edit and print labels
- Set-Get-Do commands to set and get printer configuration details
- ZPL II — Universal language for Zebra printers. Simplifies label formatting and enables format compatibility with existing systems that run Zebra printers
- EPL2 — Eltron Programming Language simplifies label formatting and enables format compatibility with legacy applications

Media Specifications

- Media Width: 25.4 mm - 112 mm
- Label Length:
 - Minimum 25.4 mm
 - Maximum 990 mm
 - Core inner diameter: 12.7 mm and 5.4 mm standard and 38.1 mm using optional adapters
- Max Roll Outer Diameter: 127 mm
- Media Thickness: 0.06 mm min, 0.1905 mm max
- 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) (Z-Band 4000)

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

Printer Specifications

Resolution	203 dpi resolution (8 dots/mm)	300 dpi resolution (12 dots/mm)
Speed (mm/sec)	Programmable 102 mm, 152 mm	76 mm, 127 mm
Dot Pitch	0.13 mm	0.09 mm
Max. Print Length	990 mm	990 mm
Min. Print Length	One Dot	One Dot
Max. Print Width	104 mm	106 mm
Min. Print Width	One Dot	One Dot

Ribbon Specifications

	ZD230TA ONLY
Ribbon Outside Diameter	66 mm (300 m) 34 mm (74 m)
Ribbon Standard Length	300 m 74 m
Ribbon Ratio	4:1 media to ribbon (300 m) 1:1 media to ribbon (74 m)
Ribbon Width	33.02 mm 110 mm
Ribbon Core I.D.	300 m ribbon 25.4 mm 74 m ribbon 12.7 mm

Font Specifications

- Character Fonts: Standard bitmapped Zebra fonts: A, B, C, D, E (OCR-B), F, G, H, (OCR-A), GS, P, Q, R, S, T, U, V & Ø Smooth font (CG Triumvirate™ Bold Condensed*)
 - Supports user-defined fonts and graphics, including custom logos
 - 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
 - 2 MB user available non-volatile memory storage for downloadable objects
 - 2 MB user-available SDRAM
- * Contains UFST® from Agfa Monotype Corporation

ZPL Barcode Symbologies

- 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

Font Specifications: 203 DPI (8 DOT/MM) and 300 DPI (12 DOT/MM)

Font	Matrix (in dots) (H × W)	Type [†]	Minimum Character Size (H × W) in mm	Max CPI
A	9 × 5	U-L-D	1.118 mm × .0762 mm	33.3
B	11 × 7	U	1.372 mm × 1.118 mm	22.7
C, D	18 × 10	U-L-D	2.235 mm × 1.498 mm	16.9
E	28 × 15	OCR-B	3.505 mm × 2.489 mm	10.2
F	26 × 13	U-L-D	3.251 mm × 2.007 mm	12.7
G	60 × 40	U-L-D	7.493 mm × 5.994 mm	4.2
H	21 × 13	OCR-A	2.616 mm × 2.362 mm	10.8
GS	24 × 24	SYMBOL	2.997 mm × 2.997 mm	8.5
P-V	20 × 18	U-L-D	Backward compatible w/S-300 Scalable (Smooth) Font	
Ø	15 × 12	U-L-D		

[†]U — Uppercase L — Lowercase D — Descenders

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 barcode

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

Fonts Specifications

Type	Width	Height	SP	CPI	Chars
Font 1	8	12	2	20.3	160
Font 2	10	16	2	16.9	160
Font 3	12	20	2	4.5	160
Font 4	14	24	2	12.7	160
Font 5	32	48	4	5.6	80

Interface/Connectivity Types

- USB:
 - Version 2.0 full speed, bi-directional
 - Supported in Win98 and Win98SE, Win Me and Windows 2000 platforms
 - Connector – Type B Female

Electrical Specifications

- Auto-ranging external power supply with C13 type connector
- Output: 24 VDC, 2.08A or 2.5A
- Input: 100-240 VAC, 50-60 Hz
- ENERGY STAR® 2.0 qualified; Energy Efficiency Level VI certified

Agency Approvals

- CCC; BSMI; KCC; BIS

Physical Specifications

ZD230TA	
Dimensions	ZD230TA Thermal Transfer model • 267 mm L x 202 mm W x 192 mm H
Weight	1.8 kg

Operating Environment

ZD230TA	
Operating Temperature	5° C to 40° C
Storage Temperature	-40° C to 60° C
Operating Humidity	25% to 85% non-condensing
Storage Humidity	10% to 90% 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.

For more information, visit www.zebra.com/zd200



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