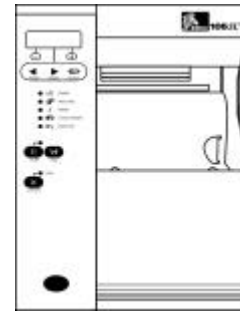




Zebra Technologies Corporation

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ZEBRA 105SL™ PRINTER SPECIFICATIONS

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

- 203 dpi print resolution
- Thin film print head with E³⁰ Element Energy Control
- Thermal transfer and thermal direct printing of bar codes, text, and graphics
- ZPL[®] or ZPL II[®] programming language, selectable through software or front panel
- Dual 32 bit processors, 1 RISC and 1 CISC
- Firmware is flash resident/download upgradable
- 4MB DRAM memory (2MB User Available)
- 4MB Flash memory (750K User Available)
- Standard LCD control panel: Back-lit, 2 line, 16 characters w/ full menu to change set-up options
- Serial RS-232/422/485 and IEEE 1284 (nibble mode) bi-directional parallel interface
- Transmissive and reflective media sensing
- Zebra[®] printer driver for Windows[™] 3.X and 95/98/NT/2000 operating systems
- NEW ZebraLink[™] - the revolutionary real-time connectivity control solution:
 - ⇒ WebView/ Alert – (requires optional ZebraNet[™] PrintServer II)
 - ⇒ ZBI[™] - Programming Language Interpreter for translation of foreign data streams

Optional Features

- Print head 300 dpi (12 dots/mm)
- Full-width rotary knife cutter- operates under software control cutting labels individually or in strips (not compatible with rewind and peel options). Note: Catch tray orderable separately.
- Media rewind spindle - rewinds roll internally onto 3" core
- Label peel and liner rewind - for print-and-apply
- Internal fan-fold media supply bin (not compatible with rewind and peel options)
- ZebraNet[™] PrintServerII –provides Ethernet connectivity and enables the use of the *Webview* and *Alert* features (Internal or External).
- Twinax or Coax interface option
- PCMCIA Flash memory slot (factory installable only) – for additional storage of fonts, graphics, logos, templates and label formats or pre-programmed with optional and international scalable fonts. Cards available with up to 8MB flash.
- BAR-ONE[®] Windows[™]-based WYSIWYG on-screen label design and print application software.

Printing Specifications

- 203 dpi resolution (8 dots/mm)
- Dot size (W x L):

- 0.0049" x 0.0049" (0.125mm x 0.125mm)
- 300 dpi resolution (12 dots/mm)
- Dot size (W x L):
- 0.0033" x 0.0039" (0.084mm x 0.10mm)
- First dot location measured from inside media edge: 0.10" ±0.035" (2.5mm ±0.89mm)
- Maximum print width: 4.09" (104mm)
- Maximum continuous media print length:

Memory	203 dpi	300 dpi
4MB	106"/2692m m	65"/1651m m

- Media registration tolerance: *
 - Vertical = ±0.050" (±1.3mm) on non-continuous media
 - Horizontal = ±0.050" (±1.3mm)
- Programmable print speeds:
 - 203 dpi model = 2.0" (51mm) through 8.0" (203mm) per second in 1" increments
 - 300 dpi model = 2.0" (51mm) through 8.0" (203mm) per second in 1" increments

Media Specifications

- Maximum non-continuous label length: 39" (991mm)
- Media type: continuous, die-cut, (and optional black mark)
- Media web width (label and liner): 0.79" (20mm) to 4.52" (115mm)
- Minimum label length: *
 - Rewind mode: 0.25" (6mm)
 - Peel mode: 0.5" (13mm)
 - Tear-off mode: 0.7" (18mm)
 - Cutter mode: 1.5" (38mm)
- Media thickness (label and liner): 0.003" (0.076mm) to 0.012" (0.305mm)
- Maximum media roll size: 8.0" (203mm) O.D. on a 3" (76mm) I.D. core
- Maximum internal fan-fold pack size: 8.0"L (203mm) x 4.5"W (114mm) x 4.5"H (114mm)
- Transmissive (gap) sensing standards:
 - Interlabel gap: 2 - 4mm, preferably 3mm
 - Sensing notch: 0.25"W (6mm) x 0.12"L (3mm)
 - Sensing hole: 0.125" (3mm) diameter
- Reflective (black mark) sensing standards:
 - Black mark length (parallel to inside media edge): 0.12" - 0.43" (3 - 11 mm)
 - Black mark width (perpendicular to inside media edge): ≥ 0.43" (≥ 11 mm)
 - Black mark location: within 0.040" (1mm) of inside media edge
 - Black mark density: > 1.0 Optical Density Units (ODU)
 - Maximum media density: 0.5 ODU

Ribbon Specifications

- Ribbon width: 0.79" (20mm) to 4.5" (114mm)
- Standard Lengths: 984' (300m) or 1476' (450m)
Provides 2:1 and 3:1 media roll to ribbon ratios
- Maximum ribbon roll size:
3.2" (81.3mm) O.D. on a 1.0" (25.4mm) I.D. core
- Ribbon wound coated-side out

Font Specifications

203 dpi (8 dots/mm)

Fonts	Matrix (in dots) (H x W)	Type†	Minimum Char. Size (H x W)	Maximum C.P.I.
A	9 x 5	U-L-D	.044" x .029"	33.9
B	11 x 7	U	.054" x .044"	22.6
C,D	18 x 10	U-L-D	.088" x .059"	16.9
E	28 x 15	OCR-B	.138" x .098"	10.1
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"	10.7
GS	24 x 24	SYMBOL	.118" x .118"	8.4
Ø	variable	U-L-D	variable	N/A

300 dpi (12 dots/mm)

Fonts	Matrix (in dots) (H x W)	Type†	Minimum Char. Size (H x W)	Maximum C.P.I.
A	9 x 5	U-L-D	.030" x .020"	50.0
B	11 x 7	U	.037" x .030"	33.3
C,D	18 x 10	U-L-D	.060" x .040"	25.0
E	41 x 20	OCR-B	.137" x .087"	11.5
F	26 x 13	U-L-D	.087" x .053"	18.8
G	60 x 40	U-L-D	.200" x .160"	6.3
H	30 x 19	OCR-A	.100" x .093"	10.7
GS	24 x 24	SYMBOL	.080" x .080"	12.5
Ø	variable	U-L-D	variable	N/A

† U - Uppercase L - Lowercase D - Descenders

- Bitmap fonts A through H and GS symbols are expandable up to 10 times, height and width independent
- Smooth scalable font Ø (CG Triumvirate™ Bold Condensed) is expandable dot-by-dot, height and width independent
- IBM® Code Page 850 International Characters

Bar Code Symbolologies & Specifications

- Bar code modulus "X" dimension:
 - Picket fence (non-rotated) orientation:
 - 203 dpi = 4.9 mil to 49 mil
 - 300 dpi = 3.3 mil to 33 mil
 - Ladder (rotated) orientation:
 - 203 dpi = 4.9 mil to 49 mil
 - 300 dpi = 3.9 mil to 39 mil
- Bar code ratios: Dot selectable from 2:1 to 3:1
- Linear bar codes: Code11, Code 39, Code 93, Code 128 with subsets A/B/C and UCC Case Codes, ISBT-128, 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
- 2-dimensional bar codes: 2-dimensional bar codes: Codablock, PDF-417, Micro-PDF417, Code 49, DataMatrix, Maxi Code, QR Code

Zebra Programming Language® (ZPL® and ZPL II®)

- Communicates in printable ASCII characters
- Compatible with mainframe, mini, and PC hosts
- Downloadable objects include graphics, scalable and bitmap fonts, label templates and formats
- Adjustable print cache
- Data compression
- 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, cut control
- Status messages to host upon request
- ZBIT™ (Zebra BASIC Interpreter) – accessible on 105SL:
 - ⇒ Interpreting program module that sits between the communication ports and the ZPLII processing engine
 - ⇒ Can be used to convert non-ZPL printer programming language to ZPL commands
 - ⇒ Direct interface to peripheral devices such as bar-code scanners, weight scales, and keyboards
 - ⇒ Based on ANSI BASIC computer language

Communications Specifications

- Standard IEEE 1284 (nibble mode) bi-directional parallel interface
- Standard high-speed serial interfaces:
 - RS-232C and RS422 with DB25F connector
 - Configurable baud rate (110 – 57.6kB), parity, and data bits. Stop bits are fixed at 1.
 - Software (XON/XOFF) or hardware (DTR/DSR) communication handshake protocols
- ZebraNet™ MPS ethernet network print server option (10BASE2 or 10BASE-T)
- Twinax/Coax interface option

Electrical Specifications

- Universal power supply with power factor correction 90-264VAC, 48-62Hz.
- Power Consumption
 - Idle = 19W
 - Printing = 180W (printing pause test label at speed A)
- Agency approvals: UL 1950, CISPR 22 (class B), IEC 950, 801-2, -3, and -4 standards, CSA 950, Canadian Doc. (class A), FCC (class A), CE compliance

Physical Specifications

- Height: 15.5" (394mm)
- Width: 11.2" (283mm)
- Depth: 19.5" (499mm)
- Weight: 55lbs. (25kg)
- Shipping Weight: 63lbs. (29kg)

Environmental Specifications

- Operating environment:
 - Thermal transfer = 41° to 104°F (5° to 40°C)
 - Thermal direct = 32° to 104°F (0° to 40°C)
 - 20% to 85% non-condensing R.H.
- Storage/Transportation environment:
 - 40° to 140°F (-40° to 60°C)

5% to 85% non-condensing R.H.

Preventative Maintenance

Zebra recommends cleaning the printer on a regular basis using standard Zebra printer parts and cleaning supplies. Consult your *User's Guide* for further details.

- **Cleaning:**
The exterior is cleaned with a lint-free cloth, and if necessary, a mild detergent solution or desktop cleaner. Interior components (printhead, platen roller, media sensor, peel bar, ribbon and media paths) are cleaned with alcohol or blown air to remove any particles.
- **Print Registration:**
Media registration and minimum label length are affected by media type and width, ribbon type and print speed. Performance improves as these factors are optimized. Zebra recommends always qualifying any application with thorough testing.