



# Zebra® 105SL™

Thermal, On-Demand, All-Metal Bar  
Code Printer

## **Serious about bar coding? Here's the choice of experience.**

The 105SL combines enhanced memory, processing capacity, and features with rugged and reliable all-metal construction. Proven platform longevity plus fast processing and print speed make it the choice of experienced users who value reliability, productivity, consistent print quality, network compatibility, and superior service and support.

## **Cutting-Edge Network Connectivity**

The 105SL offers flexible connectivity solutions including ZebraNet® Wireless Print Server to free you to move or reconfigure the printer without costly recabling, plus ZebraNet 10/100 Print Server, which offers a complete wired solution when using 10Base-T, 100Base-TX, and fast Ethernet 10/100 auto-switching networks. And with Zebra advanced printer management, gain the efficiency and the ease of centralized monitoring and control of your Zebra printers and ZebraNet print servers.

The 105SL is ideal for moderate- to high-volume printing applications (including distributed, batch, or single format) in:

- Manufacturing and compliance labeling
- Logistics and inventory control
- Product identification marking
- Work in process



# 105SL



## Specifications at a Glance\*

### MEDIA CHARACTERISTICS

**Maximum label and liner length**  
39"/991 mm

**Maximum label and liner width**  
.79"/20 mm to 4.52"/115 mm

**Maximum roll outer diameter (O.D.)**  
8"/203 mm

**Core inner diameter (I.D.)**  
3"/76 mm

**Media thickness**  
.003"/.076 mm to .012"/.305 mm

**Media types**  
Roll-feed, die-cut, continuous, fanfold, tags, tickets  
For optimum print quality and printer performance,  
use Genuine Zebra Supplies.

### RIBBON CHARACTERISTICS

**Outside diameter**  
3.2"/81.3 mm

**Standard length**  
984'/300 m to 1,476'/450 m

**Ratio**  
2:1 and 3:1 media roll to ribbon ratio

**Width**  
.79"/20 mm to 4.5"/114 mm

**Ribbon setup**  
Ribbon wound ink side out  
Ribbon is recommended to be at least as wide as media.

**Core inner diameter (I.D.)**  
1"/25.4 mm

### OPERATING CHARACTERISTICS

**Environmental**  
Operating Temp. 32° F/0° C to 104° F/40° C  
Storage/Environ. -40° F/-40° C to 140° F/60° C  
Operating Humidity 20-85% non-condensing  
Storage Humidity 5-85% non-condensing

**Electrical**  
Universal power supply with factor correction  
90-264 VAC; 48-63 Hz

**Agency Approvals**  
UL 1950; CISPR 22 (Class B); CSA 950; IEC 950;  
801-2, -3 and -4 standards; Canadian Doc.  
(Class A); FCC (Class A); CE compliance

### PHYSICAL CHARACTERISTICS

Width: 11.2"/283 mm  
Height: 15.5"/394 mm  
Depth: 19.5"/495 mm  
Weight: 55 lbs/25 kg  
Shipping weight: 63 lbs./29 kg

### RELATED PRODUCTS

**Options and Accessories**  
300 dpi printhead  
Full width cutter with orderable catch tray  
Internal rewind spindle  
Peel/liner rewind (for print-and-apply)  
Reflective media sensor  
Fanfold bin

### ZEBRALINK™ SOLUTIONS

**Software**  
ZebraDesigner™ Pro  
ZebraNet™ Bridge Enterprise  
ZebraNet Utilities v 7.0  
Zebra Universal Driver  
European and Asian font sets

**Networking**  
ZebraNet 10/100 Print Server (internal or external)  
ZebraNet Wireless Print Server  
ZebraNet PrintServer II (internal or external)  
Twinax and coax interfaces (internal)

**Firmware**  
ZPL II®—Universal language for Zebra printers.  
Simplifies label formatting and enables format  
compatibility with other Zebra printers.

Global Printing—Unicode™ compliant for fast  
multi-language, on-demand thermal printing right  
out of the box.

APL™—In many cases, Zebra's Alternate  
Programming Language allows integration of the  
105SL printer into mixed printer environments  
without format re-programming (available in 203  
dpi printers only). For additional information on  
Zebra's APL products please visit [www.zebra.com](http://www.zebra.com).

Web View—Enables you to connect and control  
your bar code printer's Web interface using a  
common Web browser.

Alert—Printers equipped with ZebraNet print servers  
will notify you via any email-enabled, wired, or  
wireless device to minimize downtime.

### COMMUNICATION AND INTERFACE CAPABILITIES

Centronics® RS-232 RS-422\*, and RS-485\* serial  
ports; IEEE 1284 bi-directional parallel

### BAR CODE SYMBOLOGIES

**Linear Bar Codes**  
Code 11, 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, RSS

**2-Dimensional**  
Codablock, PDF417, Code 49, Data Matrix,  
MaxiCode, QR Code, MicroPDF417, RSS, Aztec

### FONTS AND GRAPHICS

**Fonts and Character Sets**  
Standard Fonts: 7 bitmapped, 1 smooth scalable  
(CG Triumvirate™ Bold Condensed)

Sets: IBM® Code Page 850 International  
character set  
Contains UFST® from Monotype Imaging, Inc.

**Graphic Features**  
Supports user-defined fonts and graphics—  
including custom logos  
ZPL II drawing commands—including boxes,  
circles and diagonal lines

A tough steel housing, metal interior components, and an extruded metal printhead mechanism contribute to the 105SL's reliability in industrial environments.

### STANDARD FEATURES

Print methods: Thermal transfer or direct thermal  
Construction: Steel frame and cabinet with metal interior components  
Multi-level Element Energy Equalizer™ (E<sup>3</sup>) for superior print quality  
Fast 32-bit processing  
Selectable print speeds up to 8"/second  
Transmissive media sensor  
Standard 2-line, 16-character LCD control panel  
Internal Real-Time Clock

### PRINTER SPECIFICATIONS

**Resolution**  
203 dpi/8 dots per mm;  
300 dpi/12 dots per mm (optional)

**Memory**  
Standard: 6 MB SDRAM  
4 MB Flash  
Optional: Up to 256 MB (PCMCIA card or CompactFlash)  
64 MB Flash memory (factory installed)

**Print Width**  
Width: 4.09"/104 mm

**Print Length with 203 dpi:**  
106"/2,692 mm (with standard memory)

**Print Length with 300 dpi (optional):**  
65"/1,651 mm (with standard memory)

**Print Speed**  
8"/203 mm per second (203/300 dpi)

**Media Sensors**  
Transmissive (standard) and Reflective (optional)

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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](http://www.zebra.com)

**OTHER LOCATIONS** **USA:** California, Rhode Island, Wisconsin **EUROPE:** France, Germany, Italy, Netherlands, Poland, Spain, Sweden, United Kingdom **ASIA-PACIFIC:** Australia, China, Japan, Singapore, South Korea  
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