

## Star® TSP643/TSP743 II Direct Thermal Printers



TSP643



TSP743

### Approvals



### Standard Features

- 203 dpi (8 dots/mm) print resolution
- Two-color printing (software enabled)
- Small footprint
- Easy load “drop-in and print” paper loading
- Adjustable paper width
- Logo store utility for easy logo data
- Cash drawer driver
- Cutter
- Easy to change “cartridge-type interface” RS-232 to Parallel
- Swappable communication interface

#### TSP743:

- Label printing

## Specifications

### PRINT SPEED:

**TSP643:** 4" (100 mm) per second, 25 or 33 lines per second

**TSP743:** 7" (177.8 mm) per second, 60 lines per second at 3 mm per line (180 mm/sec)

### PRINT WIDTH:

**TSP643:** 80 mm paper: 2.83" (80 mm)  
58 mm paper: 2.05" (52 mm)

**TSP743:** Standard: 2.83" (80 mm)  
Optional: 2.05" (52 mm), 3.15" (80 mm)

### LINE SPACING:

3 mm, 4 mm (1/8", 1/6")

### RESOLUTION:

203 dpi (8 dots/mm)

### NUMBER OF COLUMNS:

**TSP643:** 80 mm paper: 24, 48 or optional 64 (ESC/POS)  
58 mm paper: 17, 34 or optional 46 (ESC/POS)

**TSP743:** Standard: 48, 71 (maximum)

### BAR CODES:

**TSP643:** UPC-A/E, JAN/EAN-8/13, Code 39/93/128, Codabar (NW7), ITF

**TSP743:** UPC-A/E, JAN/EAN-8/13, Code 39/93/128, Codabar (NW7)

### PAPER WIDTH:

Adjustable. Standard: 3.15" (80 mm)  
Optional: 2.28" (58 mm)

**TSP743** Optional: 3.25" (82.5 mm)

### PAPER THICKNESS:

**TSP643:** 0.002" to 0.003"  
(0.065 mm to 0.085 mm)

**TSP743:** 0.003" to 0.006"  
(0.065 mm to 0.150 mm)

### ROLL DIAMETER:

3.5" (90 mm)

### PAPER ROLL CORE:

1/2" to 1.00" (12 mm to 25.4 mm)

### PAPER PATH:

**TSP643:** Internal roll

**TSP743:** Slot in rear or internal roll

### PAPER LOADING:

“Drop-in and print” and external rear feed

### PAPER SENSORS:

**TSP643:** Near end, paper out, cover open

**TSP743:** Near end, paper out, top of form

### PRINTER RELIABILITY:

60 million lines MCBF (CRT)

### CUTTER RELIABILITY:

**TSP643:** 0.5 million cuts

**TSP743:** 2 million cuts

### DATA BUFFER:

8K bytes

### LOGO STORE:

**TSP643:** 2M bit

**TSP743:** 4M bit

### EMULATION:

Star line mode, ESC/POS™ (TM-U295/TM290)

### CASH DRAWER:

Two drivers and one compulsion sensor

### AUTO CUTTER:

Full and partial cut

### DRIVERS:

Windows® 95/98/2000/NT 4.0, Windows® legacy printer, OPOS, JavaPOS™, Star Raster Graphics Mode, Linux

### OPERATING TEMPERATURE:

41°F to 113°F (5°C to 45°C)

### HUMIDITY:

10% to 90% RH (w/out condensation)

### OVERALL DIMENSIONS:

**TSP643:** 5.59" W x 5.16" H x 7.83" D  
(142 mm W x 131 mm H x 199 mm D)

**TSP743:** 5.79" W x 5.83" H x 8.39" D  
(147 mm W x 148 mm H x 213 mm D)

### APPROVALS:

UL & C-UL listed, FCC, TUV

### WARRANTY:

Three-year limited warranty on parts  
One-year limited warranty on printhead & cutter

*Windows is a registered trademark of Microsoft Corporation*