

# Star

The Lowest Cost, High Quality POS Printer  
**THE TSP100 SERIES**



***Including the latest versions in the TSP100 Series - TSP100 PUSB  
- the World's 1st Entry-Level, Dedicated Powered USB models***

## Star Performance – Receipts Per Minute



Over the last three years Star Micronics has introduced a variety of new products with such advanced processing power that the old fashioned method of measuring print speed has been made redundant. Simply measuring how fast the head will print one isolated 4mm line of

output does not take into account the total investment that has been put into the overall “build”.

Star Micronics will therefore be using the new standard in print speed measurement called RPM. This will measure the actual time taken to produce an entire receipt from the moment it is requested by the software to when it is produced – all in a laboratory controlled environment. Star’s latest product, TSP100 *futurePRNT*, is testament to the vast difference in throughput speed when using the very latest in printer

technology. Just look at the results in the table below. Users are no longer limited to using old fashioned, unexciting resident fonts on their receipts.

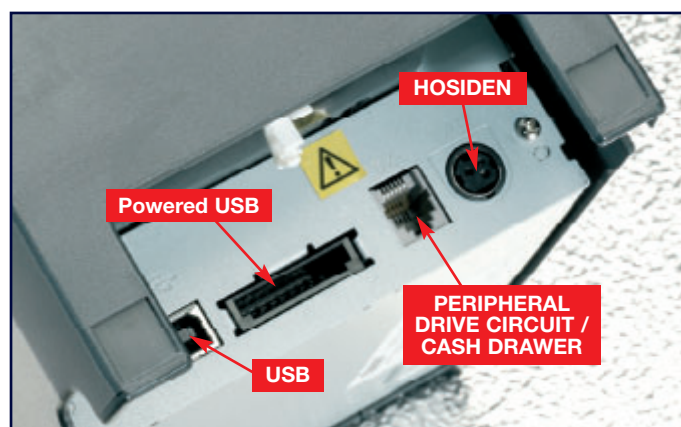
The TSP100 *futurePRNT* is capable of producing the same number of receipts per minute using modern TrueType fonts instead.

Receipts Per Minute (rpm)				
Model USB I/F	Driver Version	Print Speed (mm / sec.)	Graphic with TrueType Font	Resident Font
Star TSP100 <i>futurePRNT</i>	V.1.0	125	25	25rpm
Star TSP600	Raster: 20050520 Line: 20050628	100	21	24rpm
Star TSP700II USB / Parallel	SP712, 742 V1.0	250	50 / 44	53rpm

Results obtained printing 80mm wide x 150mm long receipt with Microsoft Windows XP on PC with CPU 2.3 GHz and 512 MB RAM

## NEW TSP100 Powered USB Printers

### The World's 1st Dedicated Entry-Level Powered USB



The printer is supplied with two port covers for use depending on configuration chosen.



**Benefit from improved cable management and, more importantly, being able to cost-effectively use the same UPS on both your POS station and printer at the same price as a traditional printer.**

USB is now the industry's preferred communication link between a PC and a printer; so what is the next logical step – to combine the power supply and interface to produce Powered USB. As a result, Star has developed the world's first dedicated entry-level Powered USB printers offering significant cost advantages over competitor products for all types of retailer.

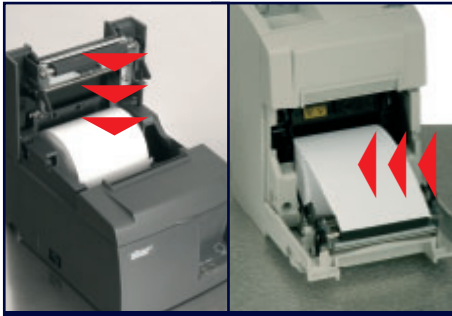
As usual the POS market is in IT transition with the future looking at Powered USB terminal and peripherals. The key advantages include now being able to cost-effectively include UPS (Uninterrupted Power Supply) cover on both the PC and printer so that all transactions will be protected. The TSP100 PUBS is therefore perfect to replace any single station printer with a free-of-charge upgrade path when the retailer decides to follow the industry and use Powered USB POS Terminals at the same price as a traditional single station printer.

To replace a single station serial printer; set the printer up as indicated; change the interface cable to USB and create a Virtual Serial Port using the Star wizard included in the TSP100 Printer Properties Page under “TSP config”. Contact Star for the quick fix to replace a Parallel printer.



**TSP113 PUBS – Tear Bar Version • TSP143 PUBS – Autocutter Version**





"Drop-In & Print", easy paper loading in either the standard horizontal or space saving vertical position



Robust, high speed guillotine cutter for increased reliability



Two-colour output with running costs comparable with other POS technologies



Wall mount bracket automatically included with printer at purchase



Full speed USB interface with serial port emulator for legacy software written for serial connection

**Welcome to the next generation in POS printers.**  
**The TSP100 is the lowest cost, high quality thermal receipt printer available today - with ALL accessories and software included.**



## Easy Set-up with or without the Printer

All the TSP100's printer features are available from the printer properties page in Windows, including unique features such as Auto-Text Reversal™ for wall mounted or vertical operation. Simply tick the box and all output will be automatically turned upside down for user comfort. All settings can be stored on the PC and "mirrored" across other TSP100 printers with a simple export configuration feature for mass system installations. No hardware configuration is needed at all.



JAVAPOS™



Designed for  
Microsoft®  
Windows® XP

ESC/POS™



"Instinctive" compatibility with majority of POS operating platforms, with quality suite of drivers

## futurePRNT Software

The secret of Star's success with this ground-breaking product is a result of the investment that Star has put in time, effort and money into the software provided with this printer.

This software far exceeds the installation tools normally provided, enabling users to install high volume, custom set-ups without even taking the printer out of its box. Users can pre-determine set-up requirements due to the operating platform selected as well as take advantage of the Receipt Re-design and Coupon Marketing tools which will work happily alongside the current installed POS software. Star is constantly new *futurePRNT* software tools; details of which can be found on [www.futureprnt.com](http://www.futureprnt.com) Examples of just some of the Value-Added Software for Retailers include:



### The TSP100 Receipt Re-Design Tool



This revolutionary new tool has been designed to work completely independently from your current POS software and will allow any user to literally re-design their receipts without changing their software. Legacy software can have embedded text and graphics which you may

have always wanted to change. Now you can, with the new **RECEIPT CROPPING TOOL** which will crop unwanted sections, thus creating space for new graphics and text. The unique Star Selectable **PRE-VIEW TOOL** will make this task even easier. Perhaps the most important element will be the **FONT REPLACEMENT TOOL** making the printer's resident fonts no longer relevant. This, along with the other tools mentioned, will be available from the printer's properties page and, when selected, will replace any non TrueType fonts featured on the receipt with a more attractive / effective font – all without affecting the speed of the printer.



**Literally re-design your receipt without changing your software or becoming an IT expert. Crop out embedded text and images, add new profit-making messages and graphics.**

### Coupon Marketing Tool with the TSP100

Star's revolutionary new printer has taken customer motivation to new heights with this free-of-charge value-added software, which will work alongside your current system. The new Coupon Marketing Tool from Star will enable the automatic printing of coupons based on the retailer's pre-decided products or purchase values relevant to that transaction.

Seasonal fluctuations, overstock situations can all be addressed by the retailer determining certain "trigger action" key words. Unlike AutoLogo on The TSP700, the simple wizard-driven software will "word-search" all receipts to ascertain the automatic output of relevant coupons or graphics.



The new **IMAGE IMPORT TOOL** simplifies the usual logo store set-up by eliminating the need for the usual image preparation work. An unlimited number of mono or colour jpgs, gifs and bmps can be accessed by the control panel, saved by name and even prepared for output with a choice of dither methods. There is no longer any

need to pre-size or pre-save an image file as a mono bmp, as was so often required by other POS printers. The TSP100's unique installation set-up facility will allow PCs to be pre-installed (not necessarily with the printer connected) for multiple printer use across the whole store. The new **PRE-VIEW TOOL** provides retailers and system builders with the ability to pre-check the overall appearance of planned receipts by using the pre-view tool during set-up. This simple tool, again a rare facility in the POS world, will save much time.



The new **JOURNAL AND MULTI-COPY TOOL** from Star truly demonstrates the versatility of the Star TSP100 *futurePRNT*. Not only can the user now determine how many copies should be printed, but they can also specify the

different text and graphics required per copy – perfect for DIY retailers, pizza delivery companies to name just a few of the users that will really appreciate this tool.

### Star TSP100 System Builder Tools



Star has produced a dedicated **SDK** (Modular Software Developers Kit) with a wide range of tools available, allowing the system designer to take advantage of all the TSP100's software and hardware features e.g auto text reversal for vertical / wall mounted use. This feature can literally be dragged and dropped into the developer's software.

**PRE-INSTALLATION SET-UP TOOL** – with Easy driver installation for all major platforms with CD-ROM supplied or using the Star designed architecture for fast modifications when needed. Custom filters / features can be easily written by the Integrator or OEM or in conjunction with our UK software engineers. The unique Printer Serial Number Identifier will also be ideal for remote polling for hardware audits, warranty / servicing issues etc.

### "DRAG & DROP" SOFTWARE FEATURE TOOL

Active X Components for Star Printer Feature Inclusion into OEM Software.



## The Most “Complete” POS Printer available today!



Often when you buy a printer, you may also need to purchase extra cables or upgrades to software. This can obviously be incredibly frustrating if you've just purchased a printer only to find you need to go back to the shop to get another kind of cable. With the TSP100 *futurePRNT*, you're ready to go.

That's because literally everything you could possibly need is included in the box at purchase – power and interface cables, wall or vertical mount kit, 58mm paper guide as well as an installation software CD with value added software.

*Power and Interface cables not included with Powered USB models (TSP113PUSB / TSP143PUSB)*



- 1 Start-up Paper Roll (standard 80mm)**
- 2 Full speed USB Interface cable (1.8m cable not included with PUSB models) with Software Selectable Serial Port Emulator**
  - the TSP100 *futurePRNT* features a full speed USB interface with a serial port emulator which means that legacy POS software written for serial connection only, can work with this printer through the USB interface
- 3 Universal 1.8m Power Cord (not included with PUSB models)**
- 4 Wall Mount and Vertical Operation Kits**
  - with automatic receipt reversal software for user comfort
- 5 Start-Up CD-ROM**
  - with Value Added Software and Drivers for majority of operating platforms including: Java-POS™ / OPOS™ / MAC™ and Windows™ with WHQL Microsoft certification for XP / Vista™ WHQL certification
- 6 Power Switch Cover**
- 7 58mm Paper Guide**



## EVERYTHING YOU'LL NEED IN ONE BOX!

Low cost, high quality thermal receipt printers with everything you need included in the box.

## TSP113 / TSP113 PUSB – Tear Bar Versions

## TSP143 / TSP143 PUSB – Autocutter Versions

*All available in Star White or Charcoal Grey*

- The most “complete” POS printer available today with all accessories included with the printer:
  - ★ 1.8m full speed USB interface cable (not included with PUSB models) with selectable virtual serial port emulator
  - ★ Internal power supply with 1.8m power cord (not included with PUSB models)
  - ★ Start-Up CD-ROM with drivers for majority of operating platforms including Java-POS™, OPOS™, Apple MAC™ and Windows™ with Microsoft certification (WHQL)
  - ★ Wall mount and vertical operation kits with automatic receipt reversal software for user comfort
  - ★ Power switch cover
  - ★ 58mm paper guide
  - ★ Value-Added Software for Retailers:
    - ★ Receipt Re-design Tool including font replacement, cropping and logo / picture placement tools
    - ★ Coupon Marketing Tool
    - ★ Unlimited Image Import Tool
    - ★ Electronic Journal facility
    - ★ Journal and Multi-Copy Tool (up to 4 copies with individual graphic capability)
- All available to work alongside your original POS software*
- ★ Value-Added Software for OEMs, System Builders, Software Developers:
  - ★ Free Customer Software Tools
  - ★ Dedicated Software Developers Kit (SDK)
  - ★ Selectable Pre-view Tool
- New Star “Intuitive” Compatibility for Microsoft applications, including JavaPOS™ & OPOS™
- All printer features available from the printer’s properties page in Windows™



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## TSP100 SERIES SPECIFICATIONS



Printer Method	Direct Thermal Line Printing
Receipt Per Minute Throughput Speed	Capable of printing 25 x 150mm receipts per minute with TrueType fonts and graphics
Printer Case Colour	Star white or charcoal grey. Other colours available for large volume orders
Print Resolution	203 dpi (8 dots per mm)
2 Colour Print Capability	Red / Black, Blue / Black, Green / Black (special paper required)
Number of Columns	48 / 64 or 53 / 71 dependant on print width
Character Set	ANK 95, 32 Int 128 Graphic plus Chinese, Japanese, Korean, Taiwanese
International Code Pages	Star Mode = 40. ESC/POS™ = 10 + 1 blank allowing an additional character page to be added
Barcodes	Extended barcode functionality – 9 versions / PDF417 & Maxicode (pending)
Line Spacing	3mm or 4mm + programmable
Paper Specifications:	
Width	80mm Standard, 58 mm with guide fitted
Thickness / Weight	0.065mm ~ 0.085mm / 65 ~ 85gsm
Roll Diameter	up to 83mm
Easy-Load	“Drop-In & Print”
Paper Out Sensor	Standard
Maximum Print Width	80mm paper = 72mm, 58mm paper = 50.8mm
Top Margin	11 mm
Autocutter	Guillotine (Partial Cut Only)
Logo Store Capacity	Unlimited
Drivers Available	Windows™, Mac OS X (10.2 or later), Linux CUPS Support™, OPOS™, JavaPOS™
Interface / Port:	
TSP113 / TSP143	USB 2.0 Full Speed with cables supplied
TSP113 PUSB / TSP143 PUSB	Powered USB model (cables not supplied) All versions support selectable serial port for legacy software
Emulation	Star Mode, ESC/POS™
Peripheral Drive Circuit	2 circuits (24V max.1A) 1 Compulsion input
Power Consumption	Average 1.6 Amp. Printing, 0.1 Amp. Standby.
Power Supply	Internal with power cable supplied
Operating / Storage Conditions:	
Temperature	5°C to 45°C / -20°C to 60°C
Humidity	10% to 90% RH (Without Condensation)
Dimensions	142mm (W) x 204mm (D) x 132mm (H)
Weight:	
Auto Cutter Model	1.73Kg PUSB version 1.53Kg
Tear Bar Model	1.56Kg PUSB version 1.37Kg
Safety Standards	UL, C-UL, TÜV, FCC, VCCI, EN55022, CE, CB
Reliability:	
MCBF	60 Million Lines
Print head	100km
Cutter (Guillotine)	1 Million Cuts
Accessories / Options	No options available as ALL accessories included with printer.
ALL included with Printer	Wall Mount Bracket, Auto-Reverse Text Output Software, Vertical Mount Accessory, 58mm Paper Guide, 1.8m Interface Cable, 1.8m Power Cable, Power Switch Cover, Installation CD and Value-Added Software. (Interface and Power cables not included with PUSB versions)

*All specifications are subject to change without notice.*

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www.futurePRNT.com