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- Star Hospitality Printing Solutions
- Star Kiosk Printing Solutions
- Star Printer Mechanisms
- Star Visual Card Loyalty & Access Read / Write Systems

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SMJ2.09



POS PRINTING SOLUTIONS

RETAILING • HOSPITALITY • KIOSK • LABELLING • TICKETING • LOTTERY



 **NEW TUP500 Kiosk Printer**

2009

Star Micronics, one of the world's largest printer manufacturers, has designed a portfolio of matrix and thermal point-of-sale printers for use in a wide variety of applications. With thirty years of manufacturing expertise and a highly-skilled R&D department, Star has not only developed printers which offer high performance and reliability, but has introduced a number of unique profit-making features for the user without extra cost or extensive IT knowledge required.

The Star Difference

Star has extensively researched the needs of its users and is proud to be able to demonstrate The Star Difference in so many areas of its business, from creating the first dedicated splash-proof cover for hospitality, to providing the lowest cost quality printer of its type.

UNIQUE VALUE-ADDED POS HARDWARE DESIGNED FOR SPECIFIC APPLICATIONS

Star's innovative product development has resulted in a number of market-leading decisions from the revolutionary TSP100 *futurePRNT™* Series, setting new standards in POS printing with software features that enable the creation of purchase-related coupons and allows receipts to be individually tailored to a highly innovative portfolio that includes a number of Industry firsts.

- **TSP100 LAN** – an entry-level Ethernet printer responding to the growing need for fast, long distance communication with graphics.
- **TSP100 PoweredUSB** – the world's first dedicated entry-level PoweredUSB printer
- **TSP100 *futurePRNT™*** – the most accessories included with any POS printer facilitating immediate installation use, wall mounted or otherwise.

And, that's not all; Star Micronics is still the only manufacturer able to produce a single station printer that can produce a metre of receipts in just 4 seconds as well as barcodes, labels and tickets on paper up to 0.15mm thick.

This is just one of the reasons why the TSP700II (pages 14-15) is one of the world's best known receipt printers.

The Star Choice

Star's product philosophy has always been to give the customer a choice of products to meet their individual requirements. The wide range of choice available, encompassing on-demand ticketing and labelling printers as well as kiosk printers, is continually expanding and with the

latest addition of a revolutionary new low cost "complete" receipt printer the demands of customers operating in a variety of environments including hospitality, retail, kiosk construction, ticketing, and labelling are effectively being met.

Typical Applications

Models	SP500 Series page 25	SP700 Series pages 26-27	SP298 Series page 28	HSP7000 Series pages 22-23	TSP100 Series pages 8-11	TSP650 Series pages 12-13	TSP700II Series pages 14-15	TSP800 Series pages 16-17	TSP828 Series page 21	TSP1000 Series pages 18-19	TUP500 & TUP692 Series pages 30-31	TUP900 & TUP992 Series pages 30-31
	9-pin Matrix 7.5 lps	9-pin Matrix 8.9 lps	9-pin Matrix Slip 3.1 lps	Thermal / Matrix Combination 250mm / sec. 89 lps	Thermal up to 250mm / sec.	Thermal 150mm / sec.	Thermal 250mm / sec.	Thermal 150mm / sec.	Thermal 150mm / sec.	Thermal 180mm / sec.	Thermal 220mm / sec.	Thermal 150mm / sec.
Receipts	✦	✦ <i>futurePRNT</i> Software	✦	✦	✦ <i>futurePRNT</i> Software	✦	✦ <i>futurePRNT</i> Software	✦		✦	✦	✦
Audit Trails / Journals	✦	✦			✦ 4 Copy Software Feature	✦ Auto 2nd Copy Feature	✦ Auto 2nd Copy Feature	✦ Auto 2nd Copy Feature			✦ Electronic Journal Driver	✦ Electronic Journal Driver
Barcodes				✦ Receipt / Coupons only	✦ Receipt / Coupons only	✦ Receipt / Coupons only	✦	✦		✦ Including MAXICODE (2D) or PDF417	✦	✦
Cheque Printing			✦	✦								
Kiosk / Terminal	UP542				✦ <i>futurePRNT</i> Software	✦	✦ <i>futurePRNT</i> Software	✦			✦	✦
Kitchen Printing	✦	✦ Two Colour Output			✦	✦	✦	✦		✦		
Labels									✦ Auto Peeler		TUP542	TUP942
Mobile			✦*		✦*	✦*	✦*	✦*			✦*	✦*
Restaurant / Fast Foods	✦ Splash Resistant	✦ Two Colour Output	✦	✦	✦ Splash Proof Cover option	✦ Splash Proof Cover option	✦ Splash Proof Cover option	✦		✦		
Slip			✦	✦								
Tickets	✦	✦					✦ up to 0.15mm	✦ up to 0.15mm		✦ with Stacker	✦ up to 0.15mm	✦ up to 0.15mm
Wall Mount	✦ Option	✦ Option			✦	✦	✦	✦ Option				

* External converter required

KEY PRODUCT SUMMARY

4-5

THERMAL PRINTERS

TSP100U <i>futurePRNT™</i>	Low Cost, High Quality Thermal Receipt Printers with Software tools included	8-11
NEW TSP100GT <i>futurePRNT™</i>	250mm / second High Speed Receipt Printer with <i>futurePRNT</i> technology and software	8-11
NEW TSP100LAN <i>futurePRNT™</i>	Entry-Level Ethernet version of TSP100U with specialist LAN features	8-11
NEW TSP100PUSB <i>futurePRNT™</i>	The World's 1st Dedicated Entry level Powered USB Receipt Printer	8-11
NEW <i>futurePRNT™</i> SOFTWARE	Details of Marketing and Installation Software included with TSP100, TSP700II and SP700 Printers	6-7
NEW TSP650 SERIES	Low Cost, High Speed 150mm / second, Entry-Level Receipt Printers with Tear Bar or Autocutter	12-13
NEW TSP700II SERIES	250mm / second Multi-function Receipt Printer suitable for Labels, Barcodes, Tickets and Kiosk use	14-15
TSP800 SERIES	Unique 112mm wide, 150mm / second Barcode, Label, Receipt and Ticket Printers	16-17
TSP1000 SERIES	Versatile, Low Cost Thermal Printer with up to 30 Receipt / Ticket Stacker	18-19

MATRIX PRINTERS

SP500 SERIES	Highly Sophisticated, Entry Level Receipt Printer (up to 7.5 lps) – New Interface Version for Ethernet and USB	25
NEW SP700 SERIES	High Speed, "Drop-In & Print" Two Colour Matrix Receipt / Kitchen Printers (up to 8.9 lps)	26-27
SP298 SERIES	Reliable, Cost Effective Slip Printers (up to 3.1 lps)	28
DP8340 SERIES	Versatile, Wide (114mm), Mobile, Compact Receipt / Label Printers (up to 2 lps)	24

THERMAL / MATRIX HYBRID PRINTERS

NEW HSP7000	High Speed Thermal / Matrix Hybrid Printer	22-23
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KIOSK / TERMINAL / EMBEDDED PRINTERS

NEW TUP500 SERIES	220mm / second Open Frame Receipt or Label (without presenter) Printers designed for self-service Kiosk applications	30-31
TUP900	Versatile 80 – 112mm wide Modular Kiosk Receipt, Ticket and Label (without presenter) Printing solution	30-31
TUP992	Versatile 80 – 112mm wide Open Frame solution for A4 replacement Kiosk Printing solution	30-31

LABEL PRINTERS

TSP828 SERIES	Dedicated 112mm wide Label Thermal Printer with Automatic Label Peeler	21
TSP800 SERIES	Multi-functional 150mm / second, 112mm wide Thermal Barcode, Label, Receipt and Ticket Printers	16-17
NEW TSP700II SERIES	Multi-functional 250mm / second, up to 82.5mm wide Thermal Barcode, Label, Receipt and Ticket Printers	14-15
TSP400Z SERIES	Multi-functional 80mm / second Thermal Barcode, Label, Receipt and Ticket Printer (60 – 82mm wide adjustable)	20
NEW TUP542	High Speed 220mm / second Open Frame Thermal Kiosk Printer	30-31
TUP942	58 – 112mm wide (adjustable) 150mm / second Open Frame Thermal Kiosk Printer	30-31
DP8340 SERIES	Versatile, Wide (114mm) Mobile, Label and Receipt Printer (up to 2 lps)	24
SCP700 SERIES	Thermal Label / Matrix Slip Combination Printer	29

Star Support

Star Micronics continues to invest money and effort towards providing support for a wide selection of platforms with a full range of sophisticated printer drivers. Star's latest products demonstrate Star's determination to provide the best printers on the market with its new "intuitive" installation software for Microsoft applications including OPOS™ with Microsoft® certification (WHQL) as well as POS.Net™, XP Embedded, CE and WePOS™.

Please call us if you need information on these, or any others.



Star Key Product Summary

The Star Printers Series	DP8340	SP298	SP500	SP700	TSP100U / GT <i>futurePRNT</i>	TSP100PUSB <i>futurePRNT</i>	TSP100LAN <i>futurePRNT</i>
	page 24	page 28	page 25	pages 26-27	pages 8-11	pages 8-11	pages 8-11
	9-pin Matrix Receipt / Label Printers	9-pin Matrix Slip Printers	Low Cost, High Speed 9-pin Matrix Receipt Printers	High Speed, Easy-Load 9-pin Matrix Printer	New, High Speed "All-in-the-Box" Thermal USB Receipt Printer	Dedicated Powered USB Thermal Printer	Dedicated Entry-Level Ethernet Thermal Printer
Print Speed (lps = lines per second)	2.0 lps	3.1 lps	7.5 lps (16 column) 4.0 lps (42 column)	4.7 ~ 8.9 lps	TSP100GT: up to 250mm / sec. TSP100U: up to 125mm / sec.	125mm / sec.	125mm / sec.
No. of Columns	40 col (48 or 60 col option)	42 col	76mm – 40 / 42 / 35 58mm – 30 / 32 / 26	42 / 35 col	48 or 64 col Star or ESC/POST™	48 or 64 col Star or ESC/POST™	48 or 64 col Star or ESC/POST™
Autocutter	Tear Bar only	Slip Printer	SP542 Full or Partial cut (Guillotine)	Tear Bar and Full / Partial (Guillotine) Autocutter Rewind models	Tear Bar and Partial (Guillotine) Autocutter models	Tear Bar and Partial (Guillotine) Autocutter models	Tear Bar and Partial (Guillotine) Autocutter models
Paper Width	114.3mm	Minimum 80mm	76, 57.5mm	76, 69.5, 58.5mm x 85mm roll diameter	80mm (58mm using guide provided)	80mm (58mm using guide provided)	80mm (58mm using guide provided)
Thickness	0.07 ~ 0.09mm	0.09 ~ 0.20mm	0.07 ~ 0.10mm	0.065 ~ 0.085mm	0.065 ~ 0.085mm	0.065 ~ 0.085mm	0.065 ~ 0.085mm
Paper Roll (diameter)	80mm		85mm	85mm	83mm	83mm	83mm
No. of copies	Original + 1	Original + 2	Original + 2	Original + 1 (2 ply) Original + 2 (3 ply)	Auto Multi Copy Software Tool	Auto Multi Copy Software Tool	Auto Multi Copy Software Tool
Max thickness	(1+1) 0.13mm	(1+2) 0.25mm	(1+2) 0.20mm	(1+2) 0.20mm	0.085mm	0.085mm	0.085mm
Print Width	84.3mm	63mm	76mm – 63 or 60mm 58mm – 45mm	63mm	50.8mm (58mm paper) 72mm (80mm paper)	50.8mm (58mm paper) 72mm (80mm paper)	50.8mm (58mm paper) 72mm (80mm paper)
Interface	RS232C or Parallel	RS232C or Bi-directional Parallel	RS232C or Bi-directional Parallel	RS232, Parallel, USB 2.0 or without interface. Ethernet / WiFi options	USB 2.0 Full Speed with cable supplied and "virtual" serial port emulator	USB 2.0 Full Speed or Powered USB with "virtual" serial port emulator	Ethernet (10/100BaseT, UTP) with cable supplied and "virtual" serial port emulator
Ink Ribbon	SF03B (Blk) SF03BR (Blk / Red)	RC200B (Blk) RC200D Laundry	RC200B (Blk) RC200D Laundry	RC700B (Blk) RC700BR (Blk / Red) RC700D Laundry			
Power Supply	230v AC psu optional 12v DC output	External option	Internal with Power Cable included	Internal with Power Cable included	Internal with Power Cable included	External option	Internal with Power Cable included
Reliability	10 million lines	9 million lines	22 million lines	22 million lines	60 million lines	60 million lines	60 million lines
Dimensions (w x d x h) mm	202 x 200 x 98 (without paper holder)	180 x 190 x 138.5	140 x 225 x 163	160 x 245 x 152	142 x 204 x 132	142 x 204 x 132	142 x 204 x 132
Additional Features	Red / Black versions Friction or Sprocket versions Label versions Wall Mounting Bracket option	Auto Side Loading with instant top of form positioning Charcoal Grey or Star White Case	6 position Black Mark Sensor as standard Vertical or Wall Mount option Near End Paper Sensor option Paper Rewind version Star Buzzer Alarm option	<i>Options include:</i> Black Mark Sensor Buzzer Near End Sensor Vertical use Kit / Wall Mount	TSP100 GT available with full gloss Piano Black or Ice White casing All other models available with standard Star White or Charcoal Grey casing <i>Accessories supplied including:</i> Wall Mount Bracket, 58mm Paper Guide, Auto-Reverse Text Output Software, 1.8m Interface Cable, 1.8m Power Cable <i>(Interface & Power cables not included with PUSB versions)</i> <i>Options:</i> Display Stand for vertical use and added protection, Splash Proof Cover 		

TSP650	TSP700II	TSP800	TSP828	TSP1000	HSP7000	TUP592 TUP542	TUP992 TUP900
pages 12-13	pages 14-15	pages 16-17	page 21	pages 18-19	pages 22-23	pages 30-31	pages 30-31
Thermal Receipt Printer	Thermal Barcode, Label & Receipt Printer	Thermal Barcode, Label, Ticket & Receipt Printer	Dedicated Thermal Label Printer with Auto-Peeler	Thermal Printer with 30 Receipt / Ticket Stacker	World's Fastest Thermal / Matrix Slip Hybrid Printer	Open Frame Thermal Kiosk / Terminal Printer	Open Frame Thermal Kiosk / Terminal Printer
150mm / sec.	250mm / sec.	150mm / sec.	up to 150mm / sec.	up to 180mm / sec.	Thermal: 250mm / sec. Matrix Slip: 4.82 ~ 8.9 lps	up to 220mm / sec.	150mm / sec.
48 or 64 col Star or ESC/POST™	48 / 64 or 53 / 71 col depending on paper width	112mm A4 Reduction Capability	up to 92 columns (driver dependent)	48 / 64 or 53 / 71 col depending on paper width	Receipt: 48 or 64 Star Mode or ESC/POS Slip: 60 or 45 col	48 / 64 or 53 / 71 col depending on paper width	40 to 80 with A4 reduction capability on 112mm paper
Tear Bar and Partial (Guillotine) Autocutter models	Full or Partial Cut (Guillotine)	Standard Full or Partial Cut (Guillotine)		Full Cut (Guillotine)	Guillotine Partial Centre Cut	Full Cut (Guillotine) Full only with PR500 Presenter & TUP592	Full or Partial (Guillotine) Full only with PR900 Presenter & TUP992
80mm (58mm using guide provided)	82.5, 80, 58mm selectable (80mm standard with User Installable Paper Guide fitted)	112mm standard, 82.5 or 80mm options with User Installable Paper Guide option	41 ~ 108mm thermal label 45 ~ 112mm thermal paper roll	45 ~ 82.5mm	Thermal: 80, 76, 58mm Matrix: 68 ~ 230mm	45 ~ 82.5mm adjustable	80 ~ 112mm adjustable
0.065 ~ 0.085mm	0.065 ~ 0.15mm	0.065 ~ 0.15mm	up to 190µm maximum	0.065 ~ 0.15mm	Thermal: 0.065 ~ 0.085mm Matrix: 0.09 ~ 0.31mm	0.065 ~ 0.15mm	0.065 ~ 0.15mm
85mm	100mm	100mm	110mm	180mm	83mm	150 / 250mm (option)	150 / 250mm (option)
Original only	Automatic 2nd Copy Raster feature	Automatic 2nd Copy Raster feature	Original only	Automatic 2nd Copy Raster feature	Original + 3	Original only	Automatic 2nd Copy Raster feature
0.085mm	0.15mm	0.15mm	0.19mm	0.15mm	(1+3) 0.31mm	0.15mm	0.15mm
72mm	80mm maximum	104mm / 832 dots	104mm / 832 dots	80mm on 82.5mm wide paper	Receipt: 51, 68, 72 (default) mm Slip: max. 85.4mm	80mm / 640 dots	104mm / 832 dots
Parallel or Serial	Serial, Parallel or USB as standard. Wireless, Ethernet / 9pin Serial options	RS232C or Bi-directional Parallel, with USB or Ethernet options	USB, RS232C Serial, Parallel or Ethernet options	Serial, Parallel or USB as standard. Ethernet / Wireless options	RS232C or Parallel with LAN / USB / Powered USB options	Supplied without Interface. 9-pin or 25-pin Serial, Parallel, USB, Ethernet options	Supplied without Interface. 9-pin or 25-pin Serial, Parallel, USB options
					RC-7KB		
External option	External option	External option	External option	External option	External option	External option	External option
60 million lines	60 million lines	37 million lines	37 million lines	60 million lines	Thermal: 60 million lines Slip: 37 million lines	60 million lines	37 million lines
142 x 202 x 132	147 x 213 x 148	180 x 213 x 148	180 x 213 x 157	161 x 306.5 x 249	186 x 296 x 177	TUP592: 160 x 234.1 x 179 TUP542: 160 x 185 x 179	TUP992: 192 x 249.3 x 179 TUP942: 190.7 x 199.1 x 179
Tear Bar or Autocutter models Two Colour Capability Unique AutoLogo™ Coupon & Graphics Tool Splash Proof Cover option Wall Mount included Display Stand option for vertical use	Splash Proof Cover option Unique AutoLogo™ Coupon & Graphics Tool <i>futurePRNT</i> software Tools including Auto Text Reverse External Paper Feed Wall Mount Kit & Interface Cover included	Two Colour Capability External Paper Feed Rear Paper Feed Wall Mount / Desk Boot option A4 to A6 Scalable Raster Driver	Automatic label peeler Free OEM version of BarTender label creation software Barcode support: Ladder & 2 Dimensional Windows™ Drivers on CD included with printer	Unique Stacker for up to 30 tickets 3 Colour Case Versions High Capacity 18cm Paper Roll 2 Colour Print capability	Unique AutoLogo™ Coupon & Graphics Tool MICR & Non MICR versions Two Colour Thermal Receipts Drop-In Paper Loading Intelligent Front Loading	Document Capture Near End Paper Sensor 25cm Paper Roll option Open Frame or Modular Solution for 45 to 82.5mm output	Document Capture Near End Paper Sensor A4 to A6 Scalable Raster Driver 25cm Paper Roll option Open Frame or Modular Solution for 80 or 112mm output

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 developing new futurePRNT software tools; details of which can be found on www.futureprnt.com

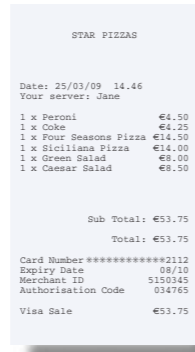
Here are just some of the examples of Value-Added Software for Retailers.



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** 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.

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. 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 printer pre-hardware configuration is needed.* 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.



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. 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 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 either 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.

The flexibility of the journal tool will allow users to create an Electronic Journal of all transactions searchable by calendar date, which can be printed out at the end of day or week. All data is stored as a bitmap file (providing a true representation of all receipts and coupons printed).

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.



Auto-Text Reversal™

TSP100U futurePRNT Series

The Lowest Cost, High Quality POS Printers available today with accessories and software included



Including the latest additions to the TSP100 Series – the Super-Fast TSP100GT, a Powered USB version and an Entry-Level Ethernet model – the TSP100LAN.

Key features of the TSP100U, TSP100GT, TSP100PUSB and TSP100LAN

■ The most "complete" POS printers available today, with the following 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-POST™, OPOST™, Apple MAC™ and Windows™ with Microsoft certification (WHQL)
- ★ Power switch cover
- ★ 58mm paper guide
- ★ Wall mount and vertical operation kits with automatic receipt reversal software for user comfort



NEW
Splash Proof
Cover option

NEW

TSP100GT futurePRNT Series

High Speed, 250mm per second Receipt Printer with futurePRNT technology and **NEW** full gloss casings



★ 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



Choice of **NEW** full gloss Piano Black or Ice White Casing

- Electronic Journal facility
- Multi-Copy Tool (up to 4 copies with individual graphic functionality)
- Easy Set-Up, with or without the printer

All available to work alongside your original POS software.

★ Value-Added Software for OEMs, System Builders, Software Developers:

- Free Customer Software Tools
- Selectable Pre-view Tool
- Dedicated Software Developers Kit (SDK)

- New Star "Intuitive" Compatibility for Microsoft applications, including JavaPOS™ & OPOST™

- All printer features available from the printer's properties page in Windows™

...more TSP100 printers are on pages 10 and 11, plus all the features and printer specifications.

Pre-Installation Set-Up Tool

Reduce multiple printer installation time using the .xml facility to save all printer settings on the PC!

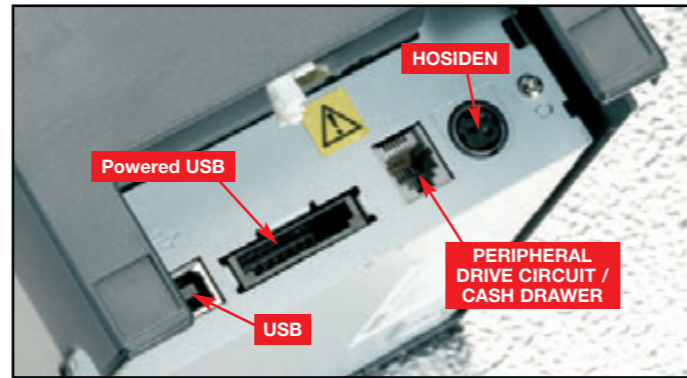
All printer and futurePRNT™ software settings including logos, coupons, Auto-text reversal for vertical use etc. can all be easily pre-set using the included intuitive configuration software. These settings can then be distributed as a .xml file to all relevant PCs for mass system installations, so that there is now no need to remove the printer from the box before installation.



Auto-Text Reversal™

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 PUSB 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.



Non Powered USB Terminal Use

NEW TSP100LAN futurePRNT

Entry-Level Ethernet version of the TSP100 futurePRNT



Ethernet is now the connection method of choice for the new breed of IT managers in hospitality and retail environments requiring fast, long distance, reliable communication. However this extremely flexible choice of connection has always come with a cost. Star is now determined to change this with the introduction of the dedicated TSP100LAN *futurePRNT*. Star *futurePRNT* is famous for its revolutionary software, quality hardware and entry-level price and the new TSP100LAN is no exception.

Simple, fast, reliable network connection using standard, low cost CAT 5 cabling combined with *futurePRNT's* software and particularly simple installation procedures enhance the advantages of today's Ethernet.

"Keep Alive" Feature

The TSP100LAN will negotiate with any networked host and automatically print an error if the connection is lost due to PC / Hub failure or cable damage.



- Immediate warning to the remote location, that the printer is offline.
- Immediate warning to the POS that the printer is offline / missing.

Compatibility with most major operating systems



Accessories included in box at purchase – power and interface cables, wall or vertical mount kit, 58mm paper guide, installation software CD with value-added software

Free customer software tools for retailers and system builders including the new Star Receipt Re-design Tool and dedicated SDK with the unique Selectable Pre-view Tool

TSP100 Printer Specifications

Printer Method	Direct Thermal Line Printing
Traditional Print Speed (not including processing)	TSP100U, TSP100PUSB, TSP100LAN – 125mm / second TSP100GT – 250mm / second
Printer Case Colour	TSP100U, TSP100LAN, TSP100PUSB Star White or Charcoal Grey. Other colours available for larger volume orders. TSP100GT full gloss Piano Black or Ice White
Print Resolution	203 dpi (8 dots per mm)
Two Colour Print Capability	Red / Black, Blue / Black (special paper required)
No. of Columns (maximum)	Star Mode = 40. ESC/POS™ Font A 42 Font B 64
Character Set	ANK 95, 32 Int 128 Graphic plus Chinese, Japanese, Korean, Taiwanese
International Code Pages	Star Mode = 40 + 1 blank, ESC/POS™ Mode = 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, 58mm with guide fitted
Thickness / Weight	0.065mm ~ 0.085mm
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	11mm
Autocutter	Guillotine (Partial Cut Only)
Logo Store Capacity	Unlimited
Drivers Available	Windows 2000/XP/XP Embedded/WePOS/Vista™/CE, Linux™, Mac OS X, Windows 98/ME/NT4 (download only), OPOS™, Java-POS™, CUPST™, POS.Net, USB Vendor Class, Star IO
Interface / Port:	
TSP100U / TSP100GT	USB 2.0 Full Speed with cable supplied
TSP100LAN	Ethernet (10/100BaseT, UTP) with cable supplied
TSP100 Powered USB	Combined Power and USB cable version (cables not supplied)
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 (not TSP100PUSB)
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:	
Autocutter Models (Guillotine)	TSP143U – 1.73Kg, TSP143GT – 1.76Kg, TSP143PUSB – 1.53Kg, TSP143LAN 1.72Kg
Tear Bar Models	TSP113U – 1.56Kg, TSP113GT – 1.59Kg, TSP113PUSB – 1.37Kg, TSP113LAN – 1.56Kg
Safety Standards	UL, C-UL, TÜV, FCC, VCCI, EN55022, CE
Reliability:	
MCBF	60 million lines
Print head	100km
Cutter (Guillotine)	1.5 million cuts
Accessories included with the 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)
Options	Splash Proof Cover Display Stand for vertical use

TSP650 Series

High Spec, Fast, Entry-Level Receipt Printer



- High performance, entry-level receipt printer capable of printing at a non-hesitating 150mm per second with an outstanding data throughput
- High quality 203 dpi print quality with barcode capability including 2D for receipts, coupons and ticketing, etc.
- Easy-to-use AutoLogo™ marketing / stock management tool with the ability to configure / download up to 15 graphics or coupons without any expensive software changes or complicated set up procedures

- Start up accessories provided with printer include:
 - ★ Operating CD with a suite of drivers
 - ★ Wall mount plate with vertical kit including both horizontal and vertical mount paper near end sensors
 - ★ Paper guide for choice of 58mm or 80mm paper widths
 - ★ Power switch cover to prevent accidental switch off
 - ★ Start up paper roll

- TSP650 options include:
 - ★ Warning buzzer
 - ★ Power supply PS60
 - ★ Splash proof cover
 - ★ Charcoal grey display stand with in-store A5 graphics facility

Typical Applications

- Point-of-Sale ■ Ticketing
- Retail ■ Hospitality

TSP651 Tear Bar Version
TSP654 Autocutter Version

All models are available in charcoal grey or Star white, with either serial RS232C or parallel interfaces as standard.

AutoLogo™ – a valuable graphics utility from Star

AutoLogo™ is a Star POS Printer "side" feature working alongside existing POS software. It allows users to quickly and easily add logos or information / graphics to a receipt without affecting existing software.

Many retailers are prepared to "live" with their current receipt format as the benefits of changing the top logo or using the receipt for distributing information such as imminent sales or holiday closing times etc are outweighed by the cost and disturbance of major software changes. AutoLogo™ allows retailers to achieve these benefits without any IT upsets.

150mm per second HIGH SPEED	EASY LOAD	TEAR BAR OR AUTOCUTTER	TT Fonts HIGH SPEED SCALABLE RASTER	60,000,000 LINES CRT RELIABILITY	BARCODE COUPONS	BI-DIRECTIONAL STATUS CHECK	2 COLOUR: RED/BLACK, BLUE/BLACK
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Optional charcoal grey display stand with in-store A5 graphics facility



Two colour output – red & black or blue & black



Tear Bar and Autocutter versions



High quality barcodes for coupons or tickets



Easy-to-use AutoLogo™ graphics tool able to configure / download up to 15 coupons without any expensive software changes using a simple wizard-driven utility. Load & "ID" a graphic to then trigger a profit-making coupon etc.



"Drop-In & Print" Easy Load



Moulded desk boot for vertical operation



Splash Proof Cover option adds extra protection



Power Switch Cover



Optional wall mount plate included

Linux
JAVAPOS™
OPOS Mac Universal
ESC/POS™
 Compatibility with most major operating systems

TSP650 Printer Specifications

Printer Method	Direct Thermal Line Printing
Print Speed	up to 150mm / second
Print Resolution	203 dpi
Two Colour Print Capability	Red / Black, Blue / Black (special paper required)
No. of Columns	48 / 64
Character Set	ANK 95, 32 Int 128 Graphic
International Code Pages	Star Mode = 40 + 1 blank, ESC/POS™ Mode = 10 + 1 blank allowing an additional character page to be added
Barcodes	9 versions / PDF417 option
Line Spacing	3mm or 4mm + Programmable
Paper Feed Speed	up to 150mm / sec.
Paper Specifications:	
Width	80mm standard / 58mm (paper guide)
Weight	0.065 - 0.085mm
Roll Diameter	83mm
Easy-Load	"Drop-In & Print"
Paper End	Standard
Near End Sensor	Horizontal and vertical use
Maximum Print Width	80mm paper = 72mm, 58mm paper = 52mm
Top Margin	13mm default (3mm selectable via Memory Switch)
Autocutter (guillotine)	Partial cut (centre cut)
Logo Store	2 Mbit Flash ROM with graphic management software
Flash ROM	16Mbits
Drivers Available	Windows 2000/XP/XP Embedded/WePOS/Vista™/CE, Linux™, Mac OS X, Windows 98/ME/NT4 (download only) OPOST™, Java-POST™, CUPS™, POS.Net, Star IO
Interface Versions	Serial or Parallel
Emulation	Star Line Mode & ESC/POS™
Peripheral Drive Circuit	2 circuits (24V max. 1A), 1 Compulsion input
Power Consumption	Operating / Waiting – Average 1.8 / 0.15A Uses PS60A – 24 Psu with Hosiden connector
Operating Conditions:	
Temperature	5°C to 45°C
Humidity	10% ~ 90% RH (without condensation)
Storage Conditions:	
Temperature	-20 to 60°C
Humidity	10% ~ 90% RH
Dimensions	142 (w) x 202 (d) x 132 (h) mm
Weight	1.72 / 1.56Kg (Autocutter / Tear Bar version)
Safety Standards	UL, C-UL, TÜV, FCC, VCCI, EN55022, CE, Gost
Reliability:	
Printer	60 million lines (MCBF)
Autocutter (Guillotine)	1.5 million cuts
Options	Parallel (IFBD-HC03), Serial (IFBD-HD03), Serial 9-pin (IFBD-HN03) Interfaces Wall & Vertical Mount Kits (basic wall mount kit supplied with printer) Charcoal grey display stand with in-store A5 graphics facility Splash Proof Cover, Buzzer AutoLogo™ Marketing software download from www.Star-EMEA.com/techsupport

Star Choice to suit your budget

Once again, Star has produced a high spec., entry-level receipt printer which will happily slip into the majority of POS and Hospitality solutions. Producing fast, high quality receipts with the very latest, leading edge components, this printer takes data processing to a new level.

Only Star is able to offer such a huge range of single station POS printers and the TSP650 extends the choice to suit your budget.



TSP700II Series

High Speed Multi-functional Barcode, Label, Ticket and Receipt Printers



- Introducing the world's fastest single station receipt printer capable of producing barcodes, labels and tickets at a rapid 250mm per second
- Large paper roll diameter up to 100mm providing almost twice as much paper capacity
- "Drop-In & Print", easy paper loading. Literally drop a roll of paper into the printer, close the lid, and it's loaded!
- Full or partial cut autocutter (centre) MCBF 2 million cuts
- New splash resistant design with easy-clean curves for robust kitchen / bar use
- Available in Star white or Charcoal grey with serial, parallel, USB (WHQL certified) or no interface versions. User installable, low cost Ethernet option also available
- Easy-to-use AutoLogo™ marketing / stock management tool with the ability to configure / download up to 15 graphics or coupons without any expensive software changes or complicated set up procedures
- Double Density (406 x 203 dpi) print resolution for high quality graphics & ID photos
- Compatibility with the majority of operating platforms with a quality suite of drivers including Microsoft WHQL certification for the TSP700II using the USB interface for seamless integration

TSP700II Driver / Advanced Configuration utility

- The "Image List" allows users to name and even import multiple file types without having to use an external image editing utility. This is particularly useful for single users to prepare an image (size, shade, pixel output) and then test print it to check the final quality
- NV logo allows users to quickly and easily download logos to the printer
- Ability to change Memory Switches in an easy-to-use graphical user interface
- The new built-in Ethernet Set-up feature avoids having to download a separate utility
- The Virtual Serial Port allows communication over Ethernet or USB using software limited to serial output
- Auto-Text Reverse for vertical use is available from the Device settings menu in raster mode
- The Enable Value Add function allows users to use some futurePRINT features such as text processing and couponing. Please contact your reseller for more information

250mm per second

HIGH SPEED

EASY LOAD

10cm PAPER ROLL

HIGH SPEED PROCESSING

TICKETS

up to 0.15mm

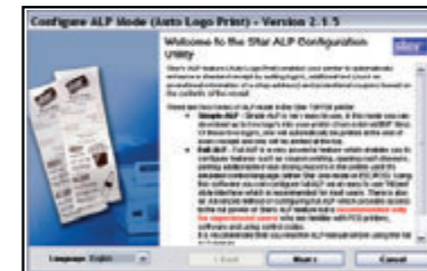
LABELS WITH BARCODES

KIOSK PRINTER

2 COLOUR: RED/BLACK, BLUE/BLACK



High speed, multi-functional printer, ideal for Labels, Barcodes, Receipts, Tickets and Kiosk



Easy-to-use AutoLogo™ graphics tool able to configure / download up to 15 coupons without any expensive software changes using a simple wizard-driven utility. Load & "ID" a graphic to then trigger a profit-making coupon etc.



Serial, Parallel and USB interface versions are available, plus a non interface version for use with Ethernet or WiFi



Splash Proof cover Receipt Rotation Tool



"Drop-In & Print" Easy Load

Linux

JAVAPOS™

Designed for Microsoft Windows® XP

OPOS Mac Universal

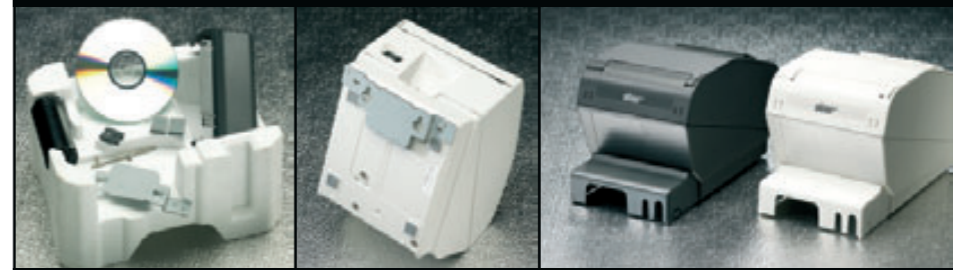
ESC/POS™

Compatibility with most major operating systems

TSP700II Printer Specifications

Printer Method	Direct Thermal Line Printing
Print Speed	up to 250mm / second
Print Resolution (vertical x horizontal) Double Density graphics	203 x 203 dpi 406 x 203 dpi (selectable for ID photos etc.)
Print Density	7 step selection by memory switch or control command
Character Matrix	12 x 24 dots, 9 x 24 dots
Two Colour Print Capability	Red / Black, Blue / Black (special paper required)
No. of Columns (maximum)	48 / 64 or 53 / 71 (depends on Paper Width) incl. 1st column print for lottery applications
Character Set	ANK 95, 32 Int 128 Graphic
International Code Pages	Star Mode = 40 + 1 blank, ESC/POS™ Mode = 10 + 1 blank allowing an additional character page to be added
Barcodes	9 versions / PDF417, QR (Maxicode Option Pending)
Line Spacing	3mm or 4mm + Programmable
Paper Feed Speed	up to 250mm / sec.
Paper Specifications: Width	80mm standard. 82.5 & 58mm also available by simply moving installed paper guide
Weight	0.065 ~ 0.15mm
Roll Diameter	100mm
Easy-Load	"Drop-In & Print"
Paper End / Black Mark Sensor	Standard
Near End Sensors	Two sensors for horizontal or vertical use respectively
Maximum Print Width	80mm paper = 72mm, 82.5 paper = 80mm, 58 paper = 52mm
Top Margin	13mm default (3mm selectable via Memory Switch)
External Straight Paper Feed Path	Standard
Autocutter (guillotine)	Full or Partial cut selectable (centre cut)
Logo Store	2 Mbit Flash ROMs with graphic management software
Flash ROM	16Mbits
Drivers Available	Windows 2000/XP/XP Embedded/WePOS/Vista™/CE, Linux™, Mac OS X, Windows 98/ME/NT4 (download only) OPOS™, Java-POS™, CUPS™, POS.Net, USB Vendor Class, Star IO, Scalable Raster Driver
Interface Versions	Serial, Parallel, USB, Non-interface versions with low cost Ethernet and WiFi options
Emulation	Star Line Mode & ESC/POS™
Peripheral Drive Circuit	2 circuits (24V max. 1A), 1 Compulsion input
Power Consumption	Operating / Waiting – Average 1.8 / 0.15A Uses PS60 – 24V with Hosiden connector
Operating / Storage Conditions: Temperature	5°C to 45°C / -20 to 60°C
Humidity	10% ~ 90% RH (without condensation) / 10% ~ 90% RH
Dimensions (without interface cover)	147 (w) x 213 (d) x 148 (h) mm / 1.75Kg
Safety Standards	UL, C-UL, TÜV, FCC, VCCI, EN55022, CE, Gost
Reliability: Printer	60 million lines (MCBF)
Autocutter (Guillotine)	2 million cuts
Options	Parallel (IFBD-HC03), Serial (IFBD-HD03), Ethernet (IFBD-HE05), USB (IFBD-HU05), Serial 9-pin (IFBD-HN03) and WiFi Interfaces Wall & Vertical Mount Kits (Basic wall mount kit supplied with printer) PS60 24V Power Supply, Splash Proof Cover, Buzzer AutoLogo™ Marketing software download from www.Star-EMEA.com/techsupport

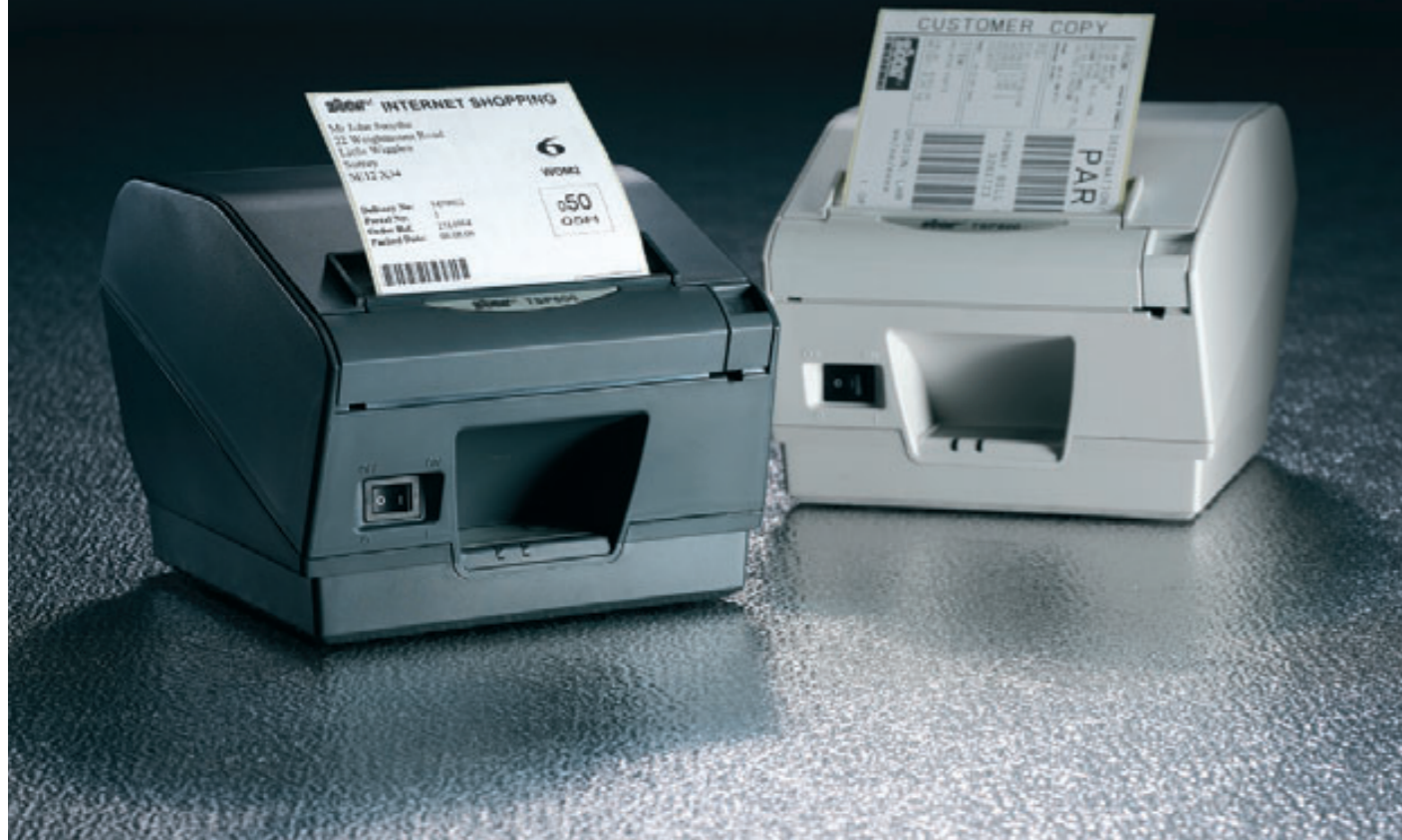
Accessories included with purchase



New features included in the box at purchase: Driver CD, Wall & Vertical mount kits, Interface & Power switch covers

TSP800 Series

High Speed, Wide Format Barcode, Label, Receipt and Ticket Printer



- Versatile 150mm / sec. Barcode, Label, Receipt & Ticket Printer with Autocutter

- Unique 104mm / 4" print width – on paper stock up to 0.15mm thick. 82.5 and 80mm paper rolls can also be accommodated using the optional paper guides

- Internal or External Paper Feed Paths (external for large capacity or security applications)

- "Drop-In & Print", easy paper loading

- Two colour output when required with comparable running costs to other technologies – red / black or blue / black (special paper required)

- Compact Footprint (180 (w) x 213 (d) x 148 (h) mm) with vertical "Desk Boot" and Wall Mount options

- ESC/POST™ compatible in standard and "Super Large" mode

- Automatic scalable raster driver for immediate A4 reduction to virtual A6. Ideal for desktop replacement printer, internet café and kiosk use

Typical Applications

- High Quality POS Receipt Printer** with shelf edge labelling feature

- Barcode Printer**

- Ticket / Label / Kiosk / Information Terminal Printer** with black mark sensor

- Kiosk Information Terminal Printer**

Desk boot option & external paper feed path

- Internet Printer**

Screen image reduction feature

- Remote Printer**

- Industrial Printer**
Data logging, journals – high capacity paper rolls

TSP847D Serial Interface

TSP847C Parallel Interface



High speed USB and Ethernet interface options (user installable)



Versatile 112mm output for all retail and kiosk environments



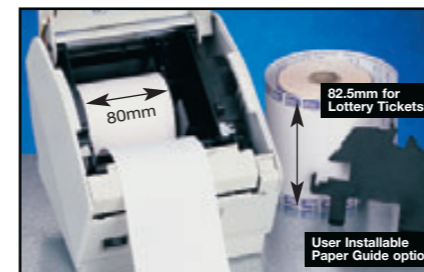
Unique kiosk printer for automatically scaled A4 to A6 output. (See the Star Kiosk brochure for further details)



External paper feed path for secure or high capacity applications



Wall mount and desk boot options



112mm paper width standard. 82.5 and 80mm paper also available with optional paper guide



Barcodes, labels, receipts and tickets all from one model at speeds up to 150mm / second



Automatic Second Copy Raster Driver with minimal software changes

TSP800 Printer Specifications

Printer Method	Direct Thermal Line Printing
Print Speed	Max. 150mm per sec. / 35 lps @ 6 lpi (47 lps @ 8 lpi)
Paper Feed Speed	150mm per sec.
No. of Columns (maximum)	104mm with A4 reduction facility
Resolution	203 dpi (8 dots per mm)
Character Matrix	ANK. 12 x 24. IBM Graphic 12 x 32
Character Set	ANK 95, 32 Int 128 Graphic
Print Width	up to 104mm / 832 dots
Code Pages	Star Mode = 40 + 1 blank, ESC/POST™ Mode = 10 + 1 blank
Barcodes	9 versions / PDF417, Maxicode Option (Pending)
Line Spacing	3mm or 4mm (programmable)
Flash ROM / SRAM	2 x 8 Mbit plus 2 x 1 Mbit Static RAM
Paper Specifications:	
Width	112mm
Roll Diameter	100mm
Thickness	0.065 ~ 0.15mm
Loading	"Drop-in & Print"
Printer Reliability:	
Printer	37 million lines (CRT MCBF) 12.5 million lines (Traditional)
Print Head	100 Km
Cutter (Guillotine)	65 ~ 75µm. 1 million cuts
Emulation	Star Line & Page Mode, DP8340 Mode & ESC/POST™
Interface	RS232C Serial or Parallel as standard USB, 9-pin Serial and Ethernet options
Data Buffer	4 KByte / 8 KByte 1 Line Selectable
Peripheral Drive	2 Drivers + 1 Compulsion Input
Safety Standards	UL, C-UL, TÜV, CB
EMI	FCC, VCCI, EN55022, CE marking
Drivers Available	Windows 2000/XP/XP Embedded/WePOS/Vista™/CE, Linux™, Mac OS X, Windows 98/ME/NT4 (download only) OPOST™, Java-POST™, CUPS™, POS.Net, USB Vendor Class, Star IO, Scalable Raster Driver
Operating Conditions:	
Temperature	5 ~ 45°C
Humidity	10 ~ 90% RH (Non condensation)
Storage Conditions:	
Temperature	-20 ~ +60°C
Humidity	10 ~ 90% RH (Non condensation)
Power Consumption	Operating / Waiting – Average 1.8 / 0.15A Uses PS60 – 24V with Hosiden connector
Overall Dimensions	180 (W) x 213 (D) x 148 (H) mm
Weight	1.7Kg (without paper)
Options	Parallel (IFBD-HC03), Serial (IFBD-HD03), Ethernet (IFBD-HE05), USB (IFBD-HU05), Serial 9-pin (IFBD-HN03) Interfaces PS60 Power Supply, 82.5 or 80mm Paper Guide Power Switch Cover, Wall and Vertical Mount Kits
Additional Features	Full and Partial Cut, Rear Paper Path Near End Paper Sensor Black Mark Sensor Star White or Charcoal Grey Casing Logo Store, Power Switch Cover

Automatic Page Scaling – A4 to virtual A6

The new **TSP800 Scalable Raster Driver** provides the ability to format a page or screen image in the same way as a standard PC printer and then print that image on 112mm wide paper up to 0.15mm thick. All this at up to 150mm / sec, without the need for additional software!



150mm per second

HIGH SPEED

EASY LOAD

KIOSK PRINTER

A4 → 50%

RASTER SCALER

FULL SCREEN GRAPHICS DOWN TO 112mm WIDE

up to 0.15mm

BARCODE, LABEL & TICKETS

star

LOGO STORE
16 Mbit FLASH ROM

BI-DIRECTIONAL STATUS CHECK

OR

2 COLOUR: RED/BLACK, BLUE/BLACK

TSP1000 Series

Versatile, Low Cost Thermal Printers with Receipt / Ticket Stacker



- High speed output – up to 180mm per second
- “Drop-In & Print”, easy-load
- Large paper roll capacity (up to 180mm diameter) with adjustable paper low sensor
- Ticket Stacker fitted as standard (up to 30 tickets) with fitted sensor for software driven multiple or single ticket / kitchen order print out
- Guillotine cutter
- Multiple paper width (45 – 82.5mm adjustable)

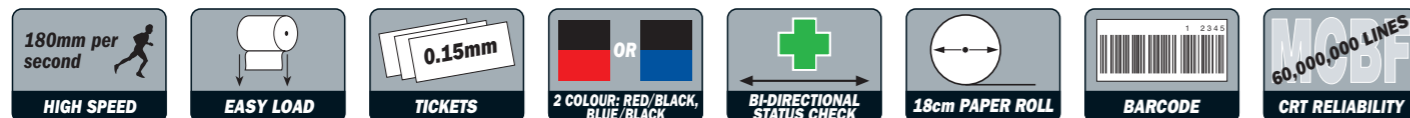
- Two colour output available – red / black or blue / black (special paper required)
- Variable position, high quality black mark sensor
- Three colour versions – Cherry red & Star white, charcoal grey or Star white

Typical Applications

- **High Speed Ticket Printer** with high capacity paper roll and ticket stacker for group / family tickets

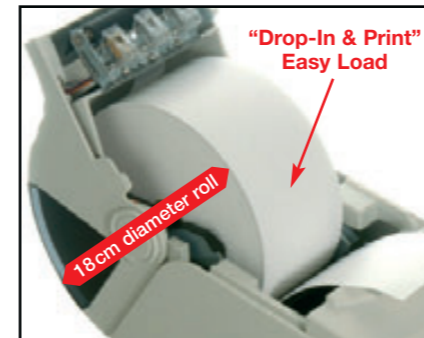
- **Reliable Kitchen / Warehouse Picking Ticket Printer** with stacker for multiple orders
- **Versatile Receipt Printer** for high volume receipting where the receipts are usually left behind
- **Lottery Printer** 82.5mm print width with 1st column printing

- **TSP1043D** Serial Interface
- **TSP1043C** Parallel Interface
- **TSP1043U** USB Interface
- **TSP1043** No Interface (interface option can be added)

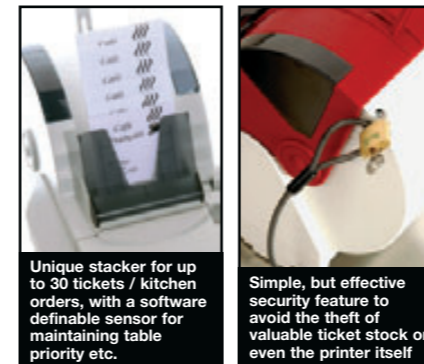


Two-colour output with running costs comparable to other POS technologies

Compatible with majority of POS operating platforms with quality suite of drivers



The high capacity 180mm diameter paper roll can provide over 3,000 9cm tickets / food orders



Unique stacker for up to 30 tickets / kitchen orders, with a software definable sensor for maintaining table priority etc.

Simple, but effective security feature to avoid the theft of valuable ticket stock or even the printer itself



Designed specifically for kitchen use with secure stacker for orders, buzzer alarm etc.



45 – 82.5mm wide waterproof ticketing facility for all types of labelling – baggage, plants etc.

TSP1000 Printer Specifications

Printer Method	Direct Thermal Line Printing
Print Speed	up to 180mm per second / 57 lps
Print Resolution	203 dpi (8 dots per mm)
Two Colour Print Capability	Red / Black, Blue / Black (special paper required)
No. of Columns (maximum)	Star Mode = 40 ESC/POS™ Font A 42 Font B 64
Character Set	ANK 95, 32 Int 128 Graphic
International Code Pages	Star Mode = 40 + 1 blank, ESC/POS™ Mode = 10 + 1 blank allowing an additional character page to be added
Barcodes	9 versions / PDF417 option, Maxicode (pending)
Line Spacing	3mm or 4mm + programmable
Paper Specifications:	
Width	45 – 82.5mm (variable with 80mm default)
Thickness / Weight	0.065mm – 0.15mm
Roll Outer Diameter	180mm (dependant on paper weight)
Easy-Load	“Drop-In & Print”
Paper Out Sensor	Standard
Maximum Print Width	maximum 80mm
Left / Right Margin	0mm (left or right), 1st column print
Ticket Stacker	30 receipts / tickets maximum with ticket sensor
Ticket Length	50 – 300mm
Autocutter	Guillotine (Full Cut only)
Cutter position	Approx. 11mm distance between cutter and top of form
Logo Store Capacity	2 Mbit
Flash ROM / SRAM	2 x 8 Mbit plus 2 x 1 Mbit Static RAM
Drivers Available	Windows 2000/XP/XP Embedded/WePOS/Vista™/CE, Linux™, Mac OS X, Windows 98/ME/NT4 (download only) OPOS™, Java-POS™, CUPS™, POS.Net, USB Vendor Class, Star IO, Scalable Raster Driver
Interface / Port	Full Speed USB (IFBD-HU06), Serial (IFBD-HD04) and Parallel (IFBD-HC04) as standard with Serial 9-pin (IFBD-HN04) and Ethernet (IFBD-HE06) options
Emulation	Star Line & Page Mode, ESC/POS™
Peripheral Drive Circuit	2 circuits (24V max.1A), 1 Compulsion input
Power Consumption	Average 2.0 Amp Printing, 0.1 Amp Standby
Power Supply	External option PS60
Operating Conditions:	
Temperature	5°C to 45°C
Humidity	10% to 90% RH (without condensation)
Storage Conditions:	
Temperature	-20°C to 60°C
Humidity	10% to 90% RH (without condensation)
Dimensions	161 (W) x 306.5 (D) x 249 (H) mm
Weight	3.0Kg
Safety Standards	UL, C-UL, TÜV, FCC, VCCI, EN55022, CE, CB
Reliability:	
MCBF	60 million lines
Print head	100km
Cutter (Guillotine)	1 million cuts



TSP400Z Series

Versatile Thermal, Barcode, Label and Ticket Printers



- High speed thermal POS / label / ticket printer
- Quality barcode / graphics printer with PDF417 capability or Maxicode 2D option
- Improved 80mm per sec. print speed
- Large paper capacity with adjustable roll widths

Typical Applications

- **Barcode Printer** Prints a variety of resident barcodes and can be upgraded to include the highly complex PDF417 or MAXICODE 2 dimensional barcodes, capable of coding up to 1024 characters
- **Entrance Ticket Printer** High quality tickets to museums, theatres or cinemas can all be printed on plain or pre-printed ticket stock of up to 150µm / 0.15mm
- **Label Printer** Barcodes, pricing, courier, warehousing, addresses
- **Fast Receipt Printer** POS systems

TSP412ZD Serial Interface, Tear Bar Version

TSP442ZD Serial Interface, Autocutter Version

Options Low cost, user installable parallel or RS422A interfaces available for both versions



TSP400Z Printer Specifications

Printer Method	Direct Thermal Line Printing	Dimensions & Weight	TSP412: 178 (W) x 226 (D) x 256 (H) mm, 3.4Kg TSP442: 178 (W) x 244 (D) x 256 (H) mm, 3.7Kg
Print Speed	80mm per sec. (max.) 40mm per sec. (min.) option	Power Supply	Built-in power supply, 230v AC, 50/60Hz
Print Resolution	8 x 8 dots / mm, 203 dpi	Reliability	38 million lines Calculated Real Time MCBF 10 million lines MCBF (Traditional)
Print Width	75mm (max.) line mode, 80mm page mode	Reliability Head Life	50 Kilometres
Max. No. of Columns	Line Mode 40 (max. 50), Page Mode 80	Environment: Operation	+5°C to +40°C, 25% to 85% RH (w/o condensation)
Character Sets	ASCII, International Characters, Graphics	Storage	-20°C to +60°C, 10% to 90% RH (w/o condensation)
Barcodes	EAN, JAN, UPC, Code 39, ITF, Code 128, Code 93 2 dimensional Barcode (PDF417) option	Paper Cutter TSP442	300,000 lifetime cuts (Full cut)
Character Matrix	8 x 16 dots, 16 x 24 dots, 24 x 32 dots	Special Features	2 part thermal paper now available Open frame version available for multi-media kiosks OPOS™ & Windows™ Drivers available Straight paper path Drive circuit for cash drawers: 6 pin modular jack 24v max.1A
Paper Specifications: Width	60mm to 82mm (adjustable)	Media Sensors	Transmissive sensor for labels and tags. Reflective sensor for use with black marks
Thickness	0.06mm to 0.15mm		
Outer Roll Diameter	115mm (max.)		
Core Diameter	25.4mm, 1 inch		
Maximum Card Weight	0.06mm to 0.15mm		
Paper Feed Pitch	3mm / 4mm, n/8mm (Programmable)		
Data Buffer	8 KByte		
Interface	RS232C, options; Parallel or RS422A		

TSP828 Series

Dedicated Direct Thermal Label Printer with Automatic Label Peeler



- High speed, high resolution output
- Fully adjustable label widths
- Easy-Load
- Automatic label peeler as standard (can be easily disabled when required)
- Multiple interface versions
- Large capacity paper roll with rear feed security feature
- New, low cost Ethernet option
- Star Line & Page Mode
- Barcode support: Ladder and 2 Dimensional
- Transmissive / or Reflective sensor for top of form recognition
- Paper End and Label Peeler sensors
- Windows™ Drivers on CD included with printer

Typical Applications

- Retail Point-of-Sale
- Shelf Labelling
- Inventory Control
- Product Labelling

- Shipping
- Couriers / Logistics
- Warehouse
- Mailing etc.

FREE Labelling Software

A free OEM version of **BarTender** – the world-renowned label creation software, is available with every TSP828.



TSP828 Printer Specifications

Printer Method	Direct Thermal Line Printing	Paper Specifications: Width	41 to 108mm (±0.5mm) thermal label 45 to 112mm (±0.5mm) thermal paper roll
Print Speed	up to 150mm / second / 35 lps @ 6 lpi (47 lps @ 8 lpi)	Roll Diameter	maximum 110mm
Paper Feed Speed	150mm / second	Thickness	up to 190µm maximum
Resolution	203 dpi (8 dots / mm)	Paper Loading	"Drop-In & Print", Easy Load
Print Width	104mm maximum	Reliability: Printer	MCBF 37 million lines
Interface Versions	TSP828UN – Dual Interface version (USB / RS232C Serial) TSP828C – Parallel Interface version	Print Head	100 km
Interface Options	Parallel (IFBD-HC03), Serial (IFBD-HD03), Ethernet (IFBD-HE05), USB (IFBD-HU05)	Operating Conditions	Temperature 5 ~ 45°C Humidity 10% to 90% RH (without condensation)
Emulation	Star Line Mode / Page Mode	Storage Conditions (not including paper)	Temperature -20 ~ +60°C Humidity 10% to 90% RH (without condensation)
		Printer Dimensions	180 (w) x 213 (d) x 157 (h) mm Approx. 2Kg not including I/F board, paper roll etc.

HSP7000 Series

The World's Fastest Thermal / Matrix Slip Hybrid Combination Printer



The HSP7000 combines key features from Star's celebrated range to produce the world's fastest hybrid printer. This printer incorporates the high quality thermal print mechanism designed for the market leading TSP100 *futurePRINT* Series, the super fast TSP100 GT with the widely renowned marketing software producing high quality 203 dpi receipts, as well as components from the high speed SP700 matrix printer.

- High speed 250mm / second thermal receipt printer (the world's fastest) combined with high speed 9-pin matrix cheque / validation printer (up to 8.9 lps at 16 column or 4.82 lps at 40 column)

- High resolution 203 dpi output for fast, superior quality logo / barcode receipt output compared with competitor's 180 dpi print quality

- Designed specifically with the user in mind, the HSP7000 is simplicity itself with:
 - "Drop-In & Print", Easy-load for fast thermal receipt paper replacement
 - Intelligent front loading with instant top of form positioning for fast

accurate cheque printing and 1 + 3 form validation / endorsement

- Fast, easy and accessible ribbon replacement with cover sensor to minimise any possible user error
- Auto status back for paper loading, sensor reporting etc. to minimise downtime, programming time and costs
- The OEM / System builder's dream with Star's famous suite of operating platform / emulation support including Microsoft Win2K/XP™, Vista™, WePOS™, Win XP Embedded™, OPOS™, Java-POS™, Linux™, MAC™ with Star Mode and ESC/POS™ emulations

- Easy-to-use AutoLogo™ marketing / stock management tool with the ability to configure / download up to 15 graphics or coupons without any expensive software changes or complicated set up procedures

- Variable paper widths to minimise costs or match existing software – 80mm default with guide provided for fast transfer to 76 or 58mm paper widths

Typical Applications

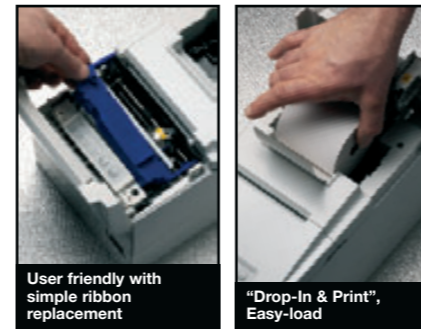
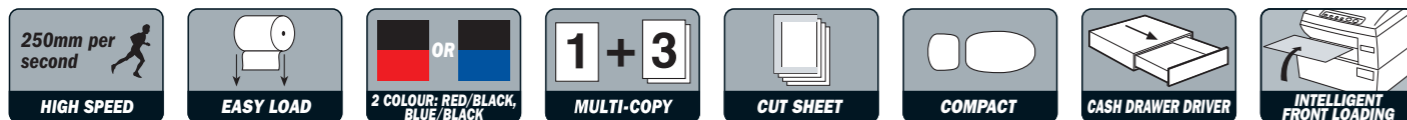
- POS Printer**
Perfect for combined and accurate, high speed 203 dpi receipt and 9-pin cheque printing. The predicted withdrawal of cheques has not materialised with retailers globally still seeing a significant percentage of sales transactions taking place using cheques
- Tough Record and Form Printer**
Fast, accurate form completion with high speed record output for Electronic and DIY retailers (for product warranties etc.). Up to 4 copies available

HSP7543 Hybrid Combination without MICR

HSP7643 Hybrid Combination with top position MICR

HSP7743 Hybrid Combination with bottom position MICR

(MICR = Magnetic Ink Character Recognition, used in cheque-reading devices)



User friendly with simple ribbon replacement

"Drop-In & Print", Easy-load



Easy-to-use AutoLogo™ graphics tool able to configure / download up to 15 coupons without any expensive software changes using a simple wizard-driven utility. Load & "ID" a graphic to then trigger a profit-making coupon etc.



High quality 203 dpi logo and barcode printer

High quality, single pass cheque printer



Fast and accurate voucher endorsement



Up to 4 part slip station – perfect for warranty and DIY applications

Compatibility with most major operating systems

HSP7000 Printer Specifications

Print Speed:	Thermal	up to 250mm / second
	Matrix Slip	83 lps (3mm / line), 63 lps (4mm / line) up to 4.82 lps (40 columns) up to 8.9 lps (16 columns)
Dimensions / Weight		186 (W) x 296 (D) x 177 (H) mm / 4.6Kg
Emulation		Star Mode / ESC/POS™
Drivers Available		Windows 2000/XP/XP Embedded/WePOS/Vista™/CE, Linux™, Mac OS X, Windows 98/ME/NT4 (download only) OPOS™, Java-POS™, CUPS™, POS.Net, USB Vendor Class, Star IO
Interface		Parallel / Serial
Interface options		Full Speed USB (IFBD-HU06), Serial (IFBD-HD04), Parallel (IFBD-HC04), Ethernet (IFBD-HE06), Powered USB (IFBD-HPU04)
Safety Standards		UL, C-UL, TÜV, FCC Class A, CE, CB GOST, C-tick, AS standard, VCCI Class A, EN55022

RECEIPT STATION:

Thermal	Direct Thermal
Resolution	203 dpi
Autocutter	Guillotine partial cut (centre)
Target Life	1.5 million cuts
Reliability	60 million lines
Paper:	
Paper Loading	"Drop-In & Print"
Roll Diameter	max. 83mm
Paper width / Print area	80 / 72mm (default) 76 / 68mm 58 / 51mm
Paper Thickness (Receipt)	0.065 ~ 0.085mm
Near End Sensor	Yes
Paper Sensor	Yes
Cover Open Sensor	Yes
Barcodes	Yes
Two Colour Receipts	Red / Black, Blue / Black (special paper required)

MATRIX SLIP STATION:

Print Direction	9-pin bi-directional, logic seeking
Reliability	37 million lines
No. of Columns	60 / 45 cols.
Print Area	max. 85.4mm
Paper Loading	Intelligent Front Loading
Paper Width	up to 230mm
Length	75 ~ 297mm
Thickness	1 part: 230mm wide: 0.09 ~ 0.15mm, 105mm wide: 0.09 ~ 0.20mm 4 part: 0.09 ~ 0.31mm
Ribbon	RC-7KB
Cheque Printing	Yes
Validation	Yes (max. 8 lines)
MICR Versions (Top / Bottom)	Yes (lower cost Non MICR version also available)
Options	Full Speed USB (IFBD-HU06), Serial (IFBD-HD04), Parallel (IFBD-HC04), Ethernet (IFBD-HE06), Powered USB (IFBD-HPU04) Interfaces PS60-A Power Supply AutoLogo™ Marketing software download from www.Star-EMEA.com/techsupport

Star Support

Star Micronics continues to invest money and effort towards providing support for a wide selection of platforms with a full range of sophisticated printer drivers. Star's latest products demonstrate Star's determination to provide the best printers on the market with its new "intuitive" installation software for Microsoft applications including Java-POS and OPOS with Microsoft certification (WHQL) as well POS.Net, XP Embedded, CE and WePOS.

Please call us if you need any further information.

DP8340 Series

Compact, Wide Format (114mm),
Receipt / Record Printers



Unique 114mm wide report, receipt and data printer available for 12V or 24V usage in mobile, rugged or unattended environments.

- Reliable budget entry level printer with tear bar
- Up to 2 lines per second with a paper feed speed of 12 lps
- Black and red printing
- Separate 230v AC power supply with 12v DC output
- Wall mount option available

Typical Applications

- **Receipt Printer**
- **Record Printer**
Data logging, Measuring equipment
- **Mobile Printing** 12 volt applications
- **Label Printing** Sprocket Version
- **Graphics Version** Details upon request

- **DP8340FD** Serial Friction, Black / Red
- **DP8340FC** Parallel Friction, Black / Red
- **DP8340SD** Serial Sprocket, Black / Red
- **DP8340SC** Parallel Sprocket, Black / Red



DP8340 Printer Specifications

Printer Method	9-pin serial impact dot matrix	Paper:	DP8340 Roll Paper (Width 4.5" / 114.3mm) DP8340S Sprocket Fanfold (Width 4.5" / 114.3mm) Roll Diameter Max. 3.15" (80mm) Thickness Max. 0.09mm No. of Copies One original + 1 copy
Print Speed	up to 2 lines per second (bi-directional)	Operating Conditions	5°C to 40°C, 10% to 80% RH (w/o condensation)
Number of Columns	40 (12 CPI) 48 or 60 column option	Storage Conditions	-20°C to 70°C, 5% to 95% RH (w/o condensation)
Print Area	84.3mm	Data Buffer	Approx. 1.5 KByte
Line Spacing	1/6"	Interface	Serial (RS232C) and 20 mA current loop or Parallel
Character Size	12 CPI	Dimensions	202 (W) x 200 (D) x 98 (H) mm (w/o paper holder)
Character Set	ASCII 96 International and Symbol 64 Block graphics 64 IBM Special 83 & Block graphics 50 (available only on parallel interface) Download 10 (available only on parallel interface)	Weight	Approx. 1.9Kg
Character Matrix:		Drivers Available	OPOS™, Windows™ line mode with control font support, JavaPOS™
Ordinary Characters	5 x 9 dots	Peripheral Drive	RS232C – Internal output / Parallel – 1 internal & 1 external (no compulsion switch)
Block Graphics	6 x 6 dots	Options	Wall mount bracket; In-vehicle power cable
IBM Block Graphic	6 x 8 dots (available only on parallel interface) Graphic Mode	PS8340 Power Supply Unit	
Ink Ribbon	Black / Red (SF-03BR), Life 800,000 / 400,000 characters Black (SF-03B), Life 800,000 characters	Output	DC 12V ± 10% (max. 2A)
Option		Dimensions	59 (W) x 117 (D) x 36 (H) mm
Reliability	10 million lines Calculated Real Time MCBF 5 million lines MCBF (Traditional)	Weight	2.0Kg
Print Head	70 million characters		
Paper Feed Speed	12 lines per second		

SP500 Series

The new, logic seeking SP500 Series offers an unbeatable price / performance ratio unmatched by any other manufacturer



- High speed, logic seeking, 9-pin quality matrix printer – up to 7.5 lps
- **NEW** non-interface version available for Ethernet and USB usage (IFBD-HE06 and IFBD-HU06)
- Competitively priced with unmatched feature per cost ratio
- "Drop-In & Insert" paper loading facility
- Adjustable 58 or 76mm paper widths
- Quality ticket output on media up to 0.10mm with 6 position Black Mark Sensor
- Spill-proof / Hygienic design for bar / kitchen environments with cable and power switch covers
- Space saving vertical or horizontal operation
- Wall mount option
- Internal universal power supply
- Journal / Rewind option (must be fitted by supplier)
- Compact footprint with internal power supply and vertical operation

Typical Applications

- **Point of Sale**
- **Ticketing**
- **Hospitality**
- **Fiscal** (requires local module)
- **Kiosk**

- **SP512** Tear Bar Version
- **SP542** Autocutter Version
- **UP542** Kiosk Version



SP500 Printer Specifications

Printer Method	9 Pin Serial Dot Matrix	Data Buffer	2 KByte or 256 Byte
Print Speed	Approx. 7.5 lps (@ 16 col) or 4 lps (@ 42 col, 16.9CPI)	Reliability: Printer	22 million lines (CRT), 9 million lines (MCBF)
Print Direction	Bi-directional, Logic Seeking	Autocutter	300,000 cuts (Full or Partial Cut) Guillotine
Paper Feed Speed	Approx. 33 lps (@ continuous feed)	Drivers Available	Windows 2000/XP/XP Embedded/WePOS/Vista™, Linux™, Mac OS X, Windows 98/ME/NT4 (download only) OPOS™, Java-POS™, CUPS™, POS.Net, USB Vendor Class, Star IO
Number of Columns	40 col / 42 col / 35 col (76mm paper) 30 col / 32 col / 26 col (58mm paper)	Peripheral Driver	2 circuits, for driving solenoids etc. (24V max., 1A)
Character Matrix	7 x 9 (half dot) / 5 x 9	(D.K.D. Function)	1 compulsion input
Character Set	95 alphanumeric, 46 International, 128 x 40 graphic	EMI Standard	VCCI Class A, FCC Class A, CE Marking
Code Pages	40 Code Pages	Safety Standard	UL, C-UL, TÜV, CB
Program ROM	Flash Memory	Black Mark Sensor	6 position as standard
Character per inch (CPI)	16.9 / 14.1	Paper End Sensor	Standard
Character Size (mm)	1.2 (W) x 2.42 (H) / 1.5 (W) x 2.42 (H)	Additional Features	Fiscal Memory (Space Only) Power Switch Cover as standard
Paper Specifications:		Overall Dimensions	140 (W) x 225 (D) x 163 (H) mm 140 (W) x 225 (D) x 210 (H) mm (rewind version)
Width	76 ± 0.5mm or 57.5 ± 0.5mm (W) x 85mm (diameter)	Weight	2.0Kg (Tear Bar Model) 2.2Kg (Autocutter Model)
Thickness 1 ply	0.07 ~ 0.10mm	Options	Paper Near End Sensor Star Buzzer alarm Paper Rewind (Journal) – Distributor/Factory Fit Vertical Mount Paper Roll Holder WB-S500 Ethernet & USB options for SPECIAL SP500 version
Copy Capability 2 ply	Original +1, 0.05 ~ 0.08mm per ply (total less than 0.14)		
Copy Capability 3 ply	Original +2, 0.05 ~ 0.08mm per ply (total less than 0.20)		
Ribbon Life	1.2 million characters (RC200B)		
Control Code	Star Mode / ESC/POS™ Emulation		
Interface	Serial or Parallel. New Non-interface version for Ethernet (IFBD-HE06), USB (IFBD-HU06), Serial 9-pin (IFBD-HN04) usage		

SP700 Series

Advanced, High Speed Clamshell™ Receipt Printers



- High speed, 9-pin high quality printer capable of producing 13 x 20 line receipts per minute (4.7 – 8.9 lps)
- "Drop-In & Print", easy paper loading. Literally drop a roll of paper into the printer, close the lid and the paper is loaded!
- New splash resistant design with easy-clean curves for robust kitchen / bar use
- Two colour output for emphasis purposes
- Internal power supply with universal cable included at purchase

- Value-Added Software for Retailers, OEMs, System Builders and Software Developers with Marketing and Graphics Tools including the new **Graphics Management Tool** with a name and list facility for easy identification and use for up to 255 images. This tool will also facilitate multiple printer configurations by enabling the PC to upload each complete graphics list quickly and simply

The **Logo Store Driver Tool** can download multiple images (mono or colour in a variety of formats) by simply printing a document containing all the images

The **Virtual Serial Port Emulator** will allow Ethernet or USB interface use whilst still retaining legacy software

- New Star "Intuitive" Compatibility for Microsoft applications including JavaPOS™, OPOS™ with Vista WHQL certification

Typical Applications

- **Receipt Printer** for POS systems that require reliability and speed
- **Hospitality** Splash resistant cover. Buzzer alarm and wall mount option

- **SP712** Tear Bar Printer
- **SP712R** Tear Bar Rewind Version
- **SP742** Autocutter Printer
- **SP742R** Autocutter Rewind Version

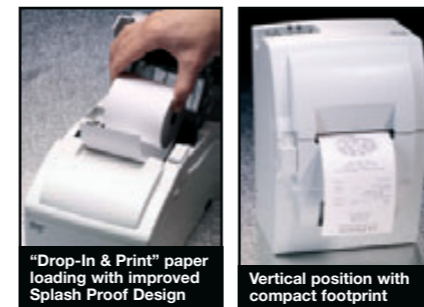
All available in Star White or Charcoal Grey with Serial / Parallel / USB (WHQL certified) or no Interface

Comparison with the other company printers

High Speed Performance		
Printer	Driver	Receipts per minute
Star SP742	SP712 / 742 V1.0	13
Printer A	—	9

Results obtained printing 80mm wide x 150mm long receipt with Microsoft Windows XP™ on Pentium PC with CPU 1996MHz with 512MB RAM

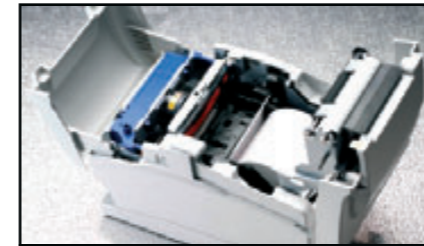
 HIGH SPEED	 EASY LOAD	 MULTI-COPY	 TEAR BAR OR AUTOCUTTER	 PAPER REWIND VERSION	 INTEGRAL POWER SUPPLY	 RED & BLACK	 22,000,000 LINES CRT RELIABILITY
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"Drop-In & Print" paper loading with improved Splash Proof Design



Vertical position with compact footprint



Easy maintenance and use



Two Colour, High Quality Graphics Print



NEW Star SP700 Rewind Version



Internal Power Supply & "plug-in" interfaces



See-through window for easy paper management

Compatibility with most major operating systems

Easy-to-fit buzzer option

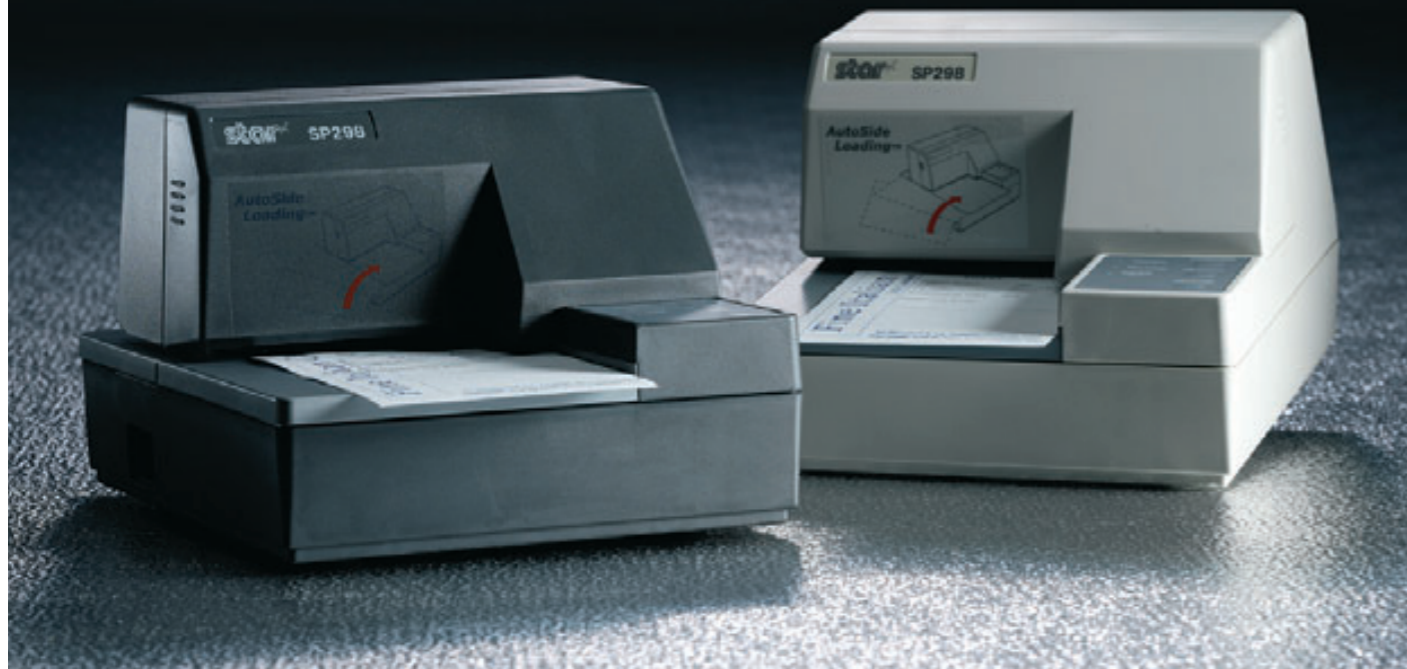
SP700 Printer Specifications

Print Method	9 Pin Serial Impact Dot Matrix
Printer Versions:	Tear Bar Mono and Red / Black Model
SP712	Autocutter Mono and Red / Black Model (full or partial cut)
SP742	Tear Bar and Autocutter Rewind Models
SP712 / 742 with rewind	RS232, Parallel, USB 2.0, Without Interface
Interface Versions	USB (IFBD-HU06), Serial (IFBD-HD04) and Parallel (IFBD-HC04), Ethernet (IFBD-HE06), Serial 9-pin (IFBD-HN04) and WiFi
Interface Options	
Print Speed	Capable of printing 13 x 20 line receipts per minute from 4.7 to 8.9 lps depending on number of columns
Paper Feed Speed	Approx. 5.6 inches per second (@ continuous feed)
Print Direction	Bi-directional, Logic Seeking
Print font:	
Character Matrix	7 x 9 (Half dot) / 5 x 9
Column capacity	42 / 35
Character Size (mm)	1.2 (W) x 2.42 (H) / 1.5 (W) x 2.42 (H)
Character Set	95 Alphanumeric, 32 International
Code Pages	40
Character Per Inch (CPI)	16.9 / 14.1
Paper Loading	Drop-In and Print, Easy Load with see-through cover
Paper Handling:	
Width with guide included	76mm (default), 69.5mm, 58mm (± 0.5) x 85mm roll diameter
Thickness 1 ply	0.06 ~ 0.085mm
Copy Capability 2 ply	Original + 1, 0.05 ~ 0.08 / piece, total less 0.14
Copy Capability 3 ply	Original + 2, 0.05 ~ 0.08 / piece, total less 0.20
Wall Mount Facility	Available on all models (up to 2 part paper)
Paper Sensors	Paper End (Near End Sensor option – factory fit), black mark option
Ribbon Life:	
RC700B	3 million characters
RC700BR	Black 1.5 million characters / Red 0.75 million characters
RC700D	Laundry Ribbon
Data Buffer	8 Kbyte
Program ROM	Flash Memory (16Mbit), NV bit image 256 Kbyte
Emulation	Star Mode and ESC/POS™
Drivers Available	Windows 2000/XP/XP Embedded/WePOS/Vista™, Linux™, Mac OS X, Windows 98/ME/NT4 (download only) OPOS™, Java-POS™, CUPS™, POS.Net, USB Vendor Class, Star IO
Power Supply	INTERNAL Power Supply with power cable included
D.K.D. Function	2 Drivers
Reliability	MCBF 22 million lines
Autocutter (Guillotine)	1.5 million cuts (full / partial cut)
Overall Dimensions	160 (W) x 245 (D) x 152 (H) mm 160 (W) x 245 (D) x 183 (H) mm (rewind version)
Weight	SP712: 2.96Kg, SP742: 3.18Kg, SP712R: 3.43Kg, SP742R: 3.65Kg
EMI Standard	VCCI Class A, FCC Class A, CE
Safety Standard	UL, C-UL, TÜV, CB, EN60950
Options	Buzzer, Wall mount / Vertical use kit, Interfaces (see above)



SP298 Series

Fast, Reliable, Cost Effective Matrix Impact Slip Printers



- Rugged bi-directional printer capable of graphics using a highly reliable 9-pin print head
- Up to 3.1 lines per second with bi-directional cheque mode
- High reliability with helix head drive 9 million lines Calculated Real Time MCBF / 2.5 million lines Traditional
- Epson TM-U295 compatible with same size footprint and interchangeable power supply

Typical Applications

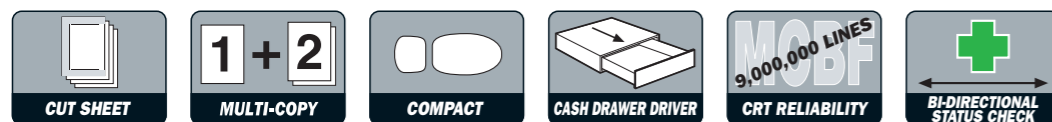
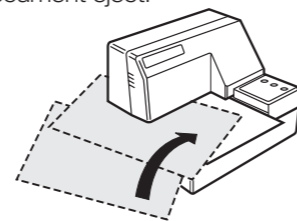
Ideal for printing 'company branded' pre-printed multi-part slips / forms

- Hotels
- Restaurants
- POS
- Pharmacy Printer

SP298 MD Serial Version
SP298 MC Parallel Version

Unique AutoSide Loading™

The printer features unique paper AutoSide Loading making document loading quick, easy and reliable. The user can simply introduce a form into the side of the station and the printer performs automatic document clamping, instant top of form alignment, fast printing and selectable forward or reverse document eject.



SP298 Printer Specifications

Printer Method	9-pin serial impact dot matrix with true descenders	Buffer:	Star Mode 2048 Byte
Print Speed	up to 3.1 lines per second with bi-directional cheque mode	ESC/POS™ Mode	512 Byte or 35 Byte
Emulation	Star Mode & ESC/POS™ (Epson TM-U295)	Reliability	MCBF 9 million lines Calculated Real Time MCBF / 2.5 million lines (Traditional)
Interface	Serial or Parallel	Head Life	70 million characters
Paper:		Power Supply	PS60 option 24V with Hosiden connector
Copy Capability	Original + two copies	Dimensions	180 (W) x 190 (D) x 138.5 (H) mm
Paper Width / Length	69 / 80mm (minimum)	Weight	2.1Kg (approx.)
Margin Top / Bottom	5 / 14mm	Agency Approvals	UL, C-UL, FCC, TÜV, CE, CB
Paper Feed Speed:		Ribbons	Black RC200B, 1.2 million characters RC2000D Laundry Ribbon
Forward / Reverse	3.5 / 4.5 inches per second or 21 / 27 lines per second	Drivers Available	OPOS™, Windows™ line mode with control font support, JavaPOS™
Number of Columns	42 (7 x 9 font)		
Print Width	63mm		
Peripheral Driver	Two drivers with compulsion switch input		

SCP700 Series

Thermal Receipt / Label & Impact Slip Combination Printer



- Versatile two station printer combining thermal receipt / label and impact slip technologies
- Cost effective, fully capable POS printer
- Prints high quality thermal receipts or labels at up to 16.7 lines per second
- Small footprint occupying minimal counter space
- Impact slip station for the printing or validation of cheques, credit card forms, restaurant slips and other multi-part documents
- Flexible dual interface option for multiple system configuration

Typical Applications

- **Pharmacy Printer**
Unique compact printer able to simultaneously print labels and prescriptions
- **POS Printer**
- **Label / Slip Tracking**
The SCP700 can be used in any environment where slips and / or labels need to be printed for product tracking – technical warranty departments etc.

SCP700 Stand Alone Printer Unit



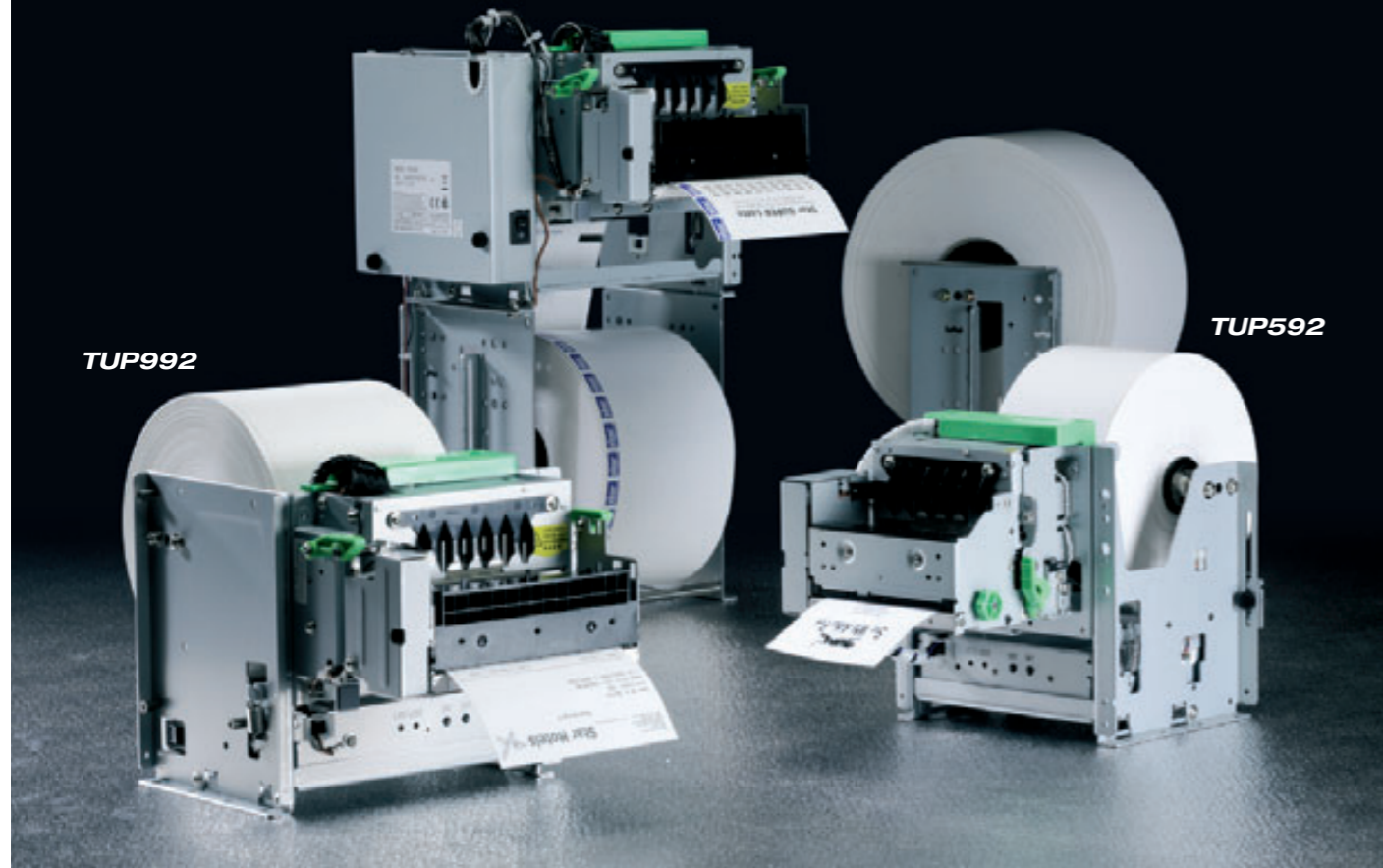
SCP700 Printer Specifications

Standard Interface	RS232C (D-Sub 9pin)	Number of Dots / Line	576 Dots
Support Interfaces	Customer Display, Dual Cash Drawer Driver	Font, Character Size	12 x 24 / 8 x 24
Optional Additional Interface	RS232C (IFBD-D), Parallel (IFBD-C)	Printable Width	72mm
Power Requirement	24V DC / 2A, Connector Type TCS7960 53-2010 (HOSIDEN)	Paper Width	80mm
Agency Approval	UL, C-UL, FCC Class A, TÜV, CE	Paper Diameter	85mm
Dimensions / Weight	182 (W) x 270 (D) x 194 (H) mm, 3.5Kg	Paper Thickness	0.06 to 0.85mm
Operating Environment	5°C to 35°C, 25% to 85% RH (w/o condensation)	Core Diameter	Inner 12mm ± 1 / Outer 17mm ± 1
SLIP PRINTER – see SP298		Paper Feed Method	Stepping Motor
THERMAL RECEIPT / LABEL PRINTER :		Paper Feed Speed	50mm / sec.
Command Emulation	Star Mode, EPSON™ TM-T85	Sensor	Paper Out, Near End (3 Adjustable Positions)
Bar Code	UPC-A/E, EAN, ITF, CODE39, CODE128, CODABAR (NW7)	Autocutter Type	Full or Partial Cut
Print Method	Direct Thermal Line Printing	Reliability	10 million lines MCBF 38 million lines Calculated Real Time MCBF
Print Head	Linear Thermal Head	Print Head Life	50km
Horizontal Dot Pitch	8 Dots / mm (203 dpi)	Autocutter MCBF (Guillotine)	300,000 cuts (Full or Partial Cut) Label Version Full Cut only
Vertical Dot Pitch	8 Dots / mm (203 dpi)	Interface Card (optional)	
Print Speed	16.7 lines / sec. (50 / sec.)	IFBD-D	RS232C
Number of Columns	48 (12 x 12 font), Font A 64 (9 x 24 font) (EPSON™ TM-T85 Mode only), Font B	Connector Type	D-Sub 25 Pin
		IFBD-C	Centronics Parallel
		Connector Type	Amphenol Type 36 Pin Connector

NEW

TUP500 & TUP900 Series

Complete Kiosk Printing Solutions available in Modular or Open Frame formats



TUP500: The NEW High Speed 220mm per second Kiosk Printing Solution

- Introducing the new superfast, versatile open frame / modular kiosk printing solution from Star Micronics. Featuring speeds up to 220mm per second (with standard 15cm paper roll) and a default speed of 180 mm per second using the optional 25cm paper roll holder
- Adjustable 45 to 82.5mm paper width functionality with self centring width adjuster
- Barcodes receipts, tickets, labels (TUP542) etc. are all printed on media from 0.065mm to 0.15mm thick allowing for complete application functionality
- Options include:
 - 25cm paper roll holder for horizontal or vertical use (max. capacity 18cm in vertical mode)
 - Paper exit guide / snout with flashing LED attraction mode
 - All models supplied without interface with low cost USB, Ethernet & traditional interface options
- Compatible with majority of operating platforms including OPOS™, Java-POS™, Linux™, ESC/POS™ and Microsoft™ Windows with WHQL certification

TUP900: The 80 – 112mm wide Kiosk Printing Solution

- High speed, cost efficient 150mm per second quality thermal barcode, receipt, ticket and A4 kiosk printing solution for 80 to 112mm formats up to 0.15mm thick
- Multi-position adjustable near end paper sensor with 80cm of cable for use with the high capacity paper roll supply option
- A4 to A6 automatic scalable raster driver for reduced, legible A4 or internet output on 112mm wide paper
- Adjustable horizontal or vertical mounted control panel with extended cable lengths
- Easy-load – simply lift and tilt the mechanism forward and insert the paper for automatic paper loading
- TUP992 options include:
 - 25cm paper roll holder (15cm standard). Max. capacity 18cm when mounted below printer
 - Choice of interfaces
 - PS60 power supply



TUP500 LED Flashing Paper Exit Guide



TUP500 Easy Paper Loading

TUP592 & TUP992

Open frame printer solution with moveable control panel and paper near end sensors via extended cables

TUP542 & TUP942

Non presenter version

TUP500 & TUP900

Modular components available (see table)

TUP500 Printer Specifications

Mechanism - TMP542 & Cutter	
Print Method	Direct Line Thermal Printing
Print Speed	up to 220mm per second (for use with suitable 80 / 82.5mm high sensitivity paper with standard 15cm roll diameter) Default speed 180mm per second
Printable Width	Max. 80mm with 1st column print
Top Margin	11mm (3mm selectable with reverse feed)
Print Resolution	8 or 16 x 8 dots / mm (203 or 406 x 203 dpi)
Paper Feed Speed	up to 220mm per second
Paper Loading	Semi Automatic with easy "Lift & Tilt" Functionality
Paper Sensors	Black Mark / Paper End / Paper Low Sensors
Paper Specifications:	
Width	Min. 45mm to Max 82.5mm
Media	Thermal Paper Rolls
Two Colour Printing	Special Thermal Paper required
Thickness	0.065 ~ 0.15mm
Roll Diameter	15cm / 6" with 25.4cm / 10" option (RHU-T500)
Autocutter	Full Cut (Guillotine) – contact Star if Partial cut needed
Autocutter Life	up to 1 million cuts
Min. / max. Cut Length	TUP542: 25mm, TUP592: 75 ~ 300mm
Print Head Life	Max. 100 million pulses / 100 Km (using recommended paper)
Reliability	60 million lines MCBF
Mechanism Dimensions	TMP542: 135 (W) x 101 (D) x 103 (H) mm
Open Frame Dimensions	TUP592: 160 (W) x 234.1 (D) x 179 (H) mm
Without Presenter	TUP542: 160 (W) x 185(D) x 179(H) mm
Drivers	Windows 2000/XP/XP Embedded/WePOS/Vista™/CE, Linux™, Mac OS X, OPOS™, Java-POS™, CUPS™, POS.Net, USB Vendor Class, Star IO

Interface	
Interface Options	TUP500 Series supplied without interface USB (IFBD-HU05), Ethernet (IFBD-HE05), Parallel (IFBD-HC03), Serial RS232C (IFBD-HD03), 9-pin Serial (IFBD-HN03)
Presenter Unit - PR500	
Driving Motor	One DC motor
Paper Loop	Upper Side Loop
Presenter Function	Document Eject Document Capture (Timed or Software controllable)
Ejecting Speed	300mm/s
Paper Thickness	0.065 ~ 0.15mm
Paper Length	75 to 300mm with Journal Mode for End-of-Day reporting
Paper Width	Min. 45mm to Max 82.5mm
Dimensions	135.1 (W) x 57 (D) x 76.3 (H) mm
Life	1 million receipts
Control Board TBD500	
Flash ROM / SRAM	16 Mbit / 4 Mbit (2M x 2)
Logo Store	Enabled
Emulations	Star Line & Page Mode, ESC/POS™
Code Pages	Star Mode = 40 + 1 blank ESC/POS™ Mode 10 + 1 blank
TUP500 Open Frame and Mechanism Options	
<ul style="list-style-type: none"> USB, Ethernet, Parallel, Serial RS232C, 9-pin Serial interface PS60 Power Supply 25cm / 10" Paper Roll Holder (RHU-T500) Large Roll Damper Roller Unit (DRU-T500B) Paper Exit Guide (SNOUT-T500) – LED lit with Flashing Attraction Mode 	
Please contact Star for other options when installing the TMP500 Mechanism	

TUP900 Printer Specifications

Mechanism - TMP942 & Cutter	
Print Method	Direct Thermal Line Printing
Print Speed	up to 150mm per second
Top Margin	15mm (3mm selectable)
Print Resolution	8 x 8 dots / mm (203 x 203 dpi)
Paper Feed Speed	150mm / second
Paper Loading	Semi Automatic with easy "Lift & Tilt" Functionality
Paper Sensors	Black Mark / Paper End / Paper Low Sensors
Paper Specifications:	
Width	80 to 112mm
Media	Thermal Paper Rolls
Two Colour Printing	Special thermal paper required
Thickness	0.065 ~ 0.15mm
Roll Diameter	15cm / 6" with 25cm / 10" option (RHU-T900)
Autocutter	Full or Partial Cut (Guillotine) Full Cut only with Presenter PR900 and TUP992
Autocutter Life	up to 1 million cuts
Reliability	37 million lines MCBF
Mechanism Dimensions	TMP942: 176.2 (W) x 101 (D) x 121 (H) mm
Bar Code	UPC-A, UPC-E, JAN/EAN-8 JAN/EAN-13, ITF, CODE39, CODE93, CODE128, CODABAR (NW-7), (PDF417 & Maxicode to follow)
Drivers	Windows 2000/XP/XP Embedded/WePOS/Vista™/CE, Linux™, Mac OS X, Windows 98/ME/NT4 (download only) OPOS™, Java-POS™, CUPS™, POS.Net, USB Vendor Class, Star IO, Scalable Raster Driver

Interface	
Interface Options	TUP900 Series supplied without interface USB (IFBD-HU06), Parallel (IFBD-HC04), Serial (IFBD-HD04), Serial 9-pin (IFBD-HN04)
Presenter Unit - PR900	
Driving Motor	One DC motor
Paper Loop	Upper Side Loop
Presenter Function	Document Eject Document Capture (Timed or Software controllable)
Ejecting Speed	300mm/s
Paper Thickness	0.065 ~ 0.15mm
Paper Length	75 to 300mm
Paper Width	80 to 112mm
Life	1 million receipts
Control Board TBD900	
Flash ROM / SRAM	2 x 8 Mbit plus 2 x 1 Mbit Static RAM
Logo Store	2 Mbit
Emulations	Star Line & Page Mode, ESC/POS™
Code Pages	Star Mode = 40 + 1 blank ESC/POS™ Mode = 10 + 1 blank
TUP992 Open Frame System	
Overall Dimensions	192 (W) x 249.3 (D) x 179 (H) mm / 2.84Kg
Printing Solution	All specifications for each module apply
TUP500 & TUP900 Power Supply - PS60	
Supply Voltage	24V DC, (59 (W) x 32 (H) x 146 (L) mm)
Input Voltage	100V (-10%) to 240V (+10%)

