

# Kiosk Printing Solutions



**As a leading installer** of packaged and modular specialist kiosk printing solutions, Star offers a wide range of industry-leading products. With over thirty years' experience in the kiosk industry and an unrivalled reputation for reliability, Star has a highly experienced Hardware Engineering Team that can provide the technical expertise and flexibility required to develop customised products. This wealth of experience pushes the boundaries in POS and tablet POS printing to bring the most advanced kiosk solutions.

With customers worldwide across retail and hospitality, Star's solutions meet the demands of even the most compact kiosk designs, while offering high performance printing that remains unrivalled today.



#### Star Success

Customers around the world include:

Premier Inn, Sun International, Coop Switzerland, P&O Ferries, Subway, Eurotunnel to name just a few.

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# PARTNER

CARE . TRUST . RESPONSIBILITY

## The Star Choice

### Specialist Packaged

Star's packaged printers offer ease of installation, a variety of interface options and are CloudPRNT compatible for internet connected services. Ideal for self-service kiosks where staff are physically present to replenish print media.

- Lower cost hardware in comparison to modular solutions

- Easier to install, change paper rolls and maintain with the front-loading mC-Print3
- 10cm roll has 60% more paper on the roll than the standard 8cm offered by other packaged printers (TSP700II and TSP800II)
- Snout option available for TSP700II and TSP800II
- TSP700II and TSP800II for labelling & heavier ticket stock solution for 58/80/112mm wide media



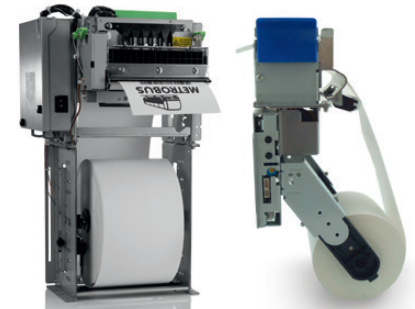
Star TSP700, TSP800 & mC-Print

### Modular Open Frame

Star TUP & Sanei printers offer traditional kiosk printing solutions that are flexible and adaptable in application. The TUP range is extremely flexible with a modular solution and long cables for customised installs for limited space enclosures whilst the Sanei range is a lower cost, more compact, "fixed" open frame kiosk mechanism.

- Larger paper roll options for less frequent paper changes – talk to Star support to discuss options (support@star-emea.com)
- Presenter/bezel options are available with Document Capture/"retract & retain"

- Transmissive, Gap & Black Mark sensors for ticketing & labelling (without presenter)
- The Sanei is capable of operating at lower temperatures (-20 to +60°C).
- The TUP range has greater connectivity options in comparison to Sanei: Sanei (USB & Serial), TUP no interface supplied – choose from USB, Serial, Parallel or LAN (TUP500 only)
- Sanei 58mm & 80mm "Bucket" models for "Drop-In & Print" easy paper loading
- All Sanei models feature status/error email capability
- 12v Sanei SK1-21H/SK1-31H models for solar energy power etc.



Star TUP & Sanei Range

### Tablet Kiosk

Aid the design of the new generation, compact Tablet Terminals with Star's wide range of tablet printing solutions with connectivity at every level including the unique mC-Print3 and TSP143IIIU for direct USB "data & charge" from the printer to iOS devices via the Lightning cable as well as many other Bluetooth, LAN & Cloud receipt, label & ticket printer solutions on media up to 0.15mm.

#### Star's range includes:

- Packaged Printers: TSP100 (no Near End paper sensor)/TSP654/MCP with partial cut

- Open-Frame Printers including the Sanei range: SK1-22/SK1-32 "bucket" paper loading versions with Bezel option in particular

**UNIQUE Connectivity** options tailored for Tablet Terminals:

- mC-Print3 & TSP143IIIU with USB "data & charge"
- mC-Print3 & HI X Printer Series with plug & play 1D or 2D scanner/SCD222 customer display hub support (2 USB host ports)
- TSP654II AirPrint, the only Apple certified POS printer, providing integration free (software) printing utilising existing Apple AirPrint user interface



Star mC-Print3, TSP143III, TSP654II Series including Apple AirPrint™ & Sanei Range

Ideal for applications where a lower cost tablet is used for its compact size/slim profile, ease of use and connected services on sites where staff are present to replenish print media. Star's mC-Print3 & HI X Printer Series simplify the kiosk design providing a hub with 2 host USB ports for Symbol/Zebra DS9208 2D scanner and Star SCD222 customer display where needed as well as remote communication.



## The Star Difference

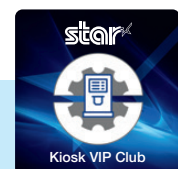
### Integration Made Easy

Star's investment, expertise and relationships with industry giants such as Microsoft and Apple ensure developers can integrate Star printers with a consistent experience. Its sophisticated drivers support industry standards from all major operating systems and, being a member of the iOS and UPOS committees, Star prides itself on the quality of SDKs, source code and Technical Manuals available to developers.



### Technical Innovation

- SDKs and Source code for kiosk builders who prefer to communicate directly with the printer's port for greater status feedback. Contact Star or go to [www.starmicronics.com/support](http://www.starmicronics.com/support)
- Remote firmware updates removing the need for site visits
- Print Verification Status feedback
- Remote communication – CloudPRNT with HI X Connect compatible printers and mC-Print
- A4-A6 automatic scaling Tool for up to 80% savings compared to a typical laser printer



### Star Kiosk VIP Club

Star has expanded the Star VIP Club with the launch of Star Kiosk VIP Club. Star Kiosk VIP Club members have access to additional sales, technical and marketing resources designed to help you develop your solution with the support of Star behind you.

Find out more and apply online at [www.StarVIP.Club](http://www.StarVIP.Club)

“Star Micronics is very happy to introduce Sanei’s entry-level, compact, open frame printers which complete the Star range to include printing solutions for limited space enclosures.”



**RETAIL**

- Vending Machines
- Cash Machines
- Product Locations

**HOSPITALITY**

- Hotel Check-in
- Event Ticketing

**TICKETING**

- Car Parks

**WAREHOUSE / LOGISTICS**

- Product Picking
- Logistics

# Sanei SK1 Series

## Entry-level, Super-Compact, Open Frame Printers

Star Micronics is now stocking Sanei’s wide range of 1D and 2D barcode, ticket, receipt and label compact kiosk mechanisms which complete the Star range with printing solutions for limited space enclosures.



**NEW**

**SK1-21-H & SK1-31-H**  
12 volt / 2" & 3"

Printers that can be powered by solar panels for remote kiosks without access to power etc.



**Models available:**

- SK1-21/211/22 Series 58/60mm**
- SK1-21A/211 – Printer only
  - SK1-21A/211-LQP – Printer with presenter
  - SK1-22 – Clamshell style “Drop-In & Print”
    - SK1-21: 200mm/sec. print speed
    - SK1-211: 250mm/sec. print speed
    - Mechanism dimensions / Weight: 104(w) x 129.2(d) x 73.6(h) mm / 525g

- SK1-31/311/32 Series 54/56/72/80mm**
- SK1-31A/311 – Printer only
  - SK1-31A/311-LQP – Printer with presenter
  - SK1-32 – Clamshell style “Drop-In & Print”
    - SK1-31: 200mm/sec. print speed
    - SK1-311: 250mm/sec. print speed
    - Mechanism dimensions / Weight: 128(w) x 174.5(d) x 74.2(h) mm / 730g

- SK1-41 Series 80/83/112mm**
- SK1-41A-L – Printer only with Label support
  - SK1-41A-LQP – Printer with presenter
    - 150mm/sec. print speed
    - Mechanism dimensions / Weight: 160.9(w) x 143.1(d) x 76.3(h) mm / 885g

**Options:**

- LB-SK1:** SK1-211/311 LED Bezel (mount bracket needed for LQP presenter version)
- BZ-SK-2:** Bezel/Snout SK1-21 Series
- BZ-SK-1:** Bezel/Snout SK1-31 Series
- PS60:** PSU for SK1-21/SK1-31/SK1-32
- CB-SK1-D3:** Power Cable required for PS60
- SA1-3A240:** PSU for SK1-41 Series (power lead not supplied)
- PR-SK1:** Presenter for SK1-21 & SK1-31
- HL02:** Paper Extension Arm SK1-21, SK1-31
- HL03:** Paper Extension Arm SK1-41

- Low profile and ultra lightweight, designed for a wide variety of kiosk systems
- Fast, high quality 203 dpi output at print speeds up to 200mm/second (2" & 3" models) 150mm/second (4" model) with 2D barcode capability
- Versatile operating environment (-20 to +60 degrees)
- Up to 120mm paper roll (outside diameter) as standard with 254mm large paper roll option. SK1-32: 83mm OD Roll only. 12mm core standard with 25.4mm also available on L models with paper thickness from 0.060 to 0.15mm on SK1-21 & SK1-31 models. Up to 0.12mm on SK1-41 models. Note: paper weight reduced with presenter use – see specs on page 14
- Dual interface USB and serial fixed interfaces as standard
- Auto load and manual “flip top” paper loading with retract/document capture feature and spring loaded paper roll holders to allow the kiosk builder to consider the simpler choice of operating access
- Sanei drivers are not as extensive as Star’s range of drivers, so please check the range of drivers available directly from **Support@Star-EMEA.com**  
Please note these drivers are not listed on the Star Global Support website [www.StarMicronics.com/support](http://www.StarMicronics.com/support)

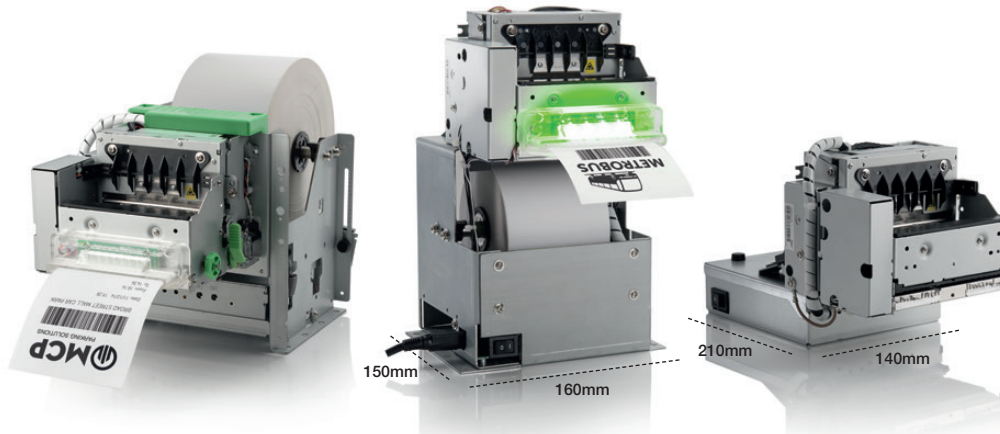


# TUP500 Series

## High Speed 220mm/second Kiosk Printing Solution available in Modular or Open Frame Formats

- High speeds of up to 220mm/second (with standard 15cm paper roll) and a default speed of 180mm/second using the optional 25cm paper roll holder
- Adjustable 45 – 82.5mm paper width functionality with self centring width adjuster
- Barcodes, receipts, tickets, labels (TUP542) etc, all printed on media from 0.065mm to 0.15mm thick for different applications

**Interface options:**  
USB HU07, LAN HE07, Serial HD03, Parallel HC03



### TUP500 and TUP900 open frame and mechanism options:

- Paper exit guide/snout with flashing LEDs
- 25cm paper roll holder (15cm standard). Max. capacity 18cm when mounted below printer
- PS60 power supply
- Large roll Damper Unit
- All models supplied without interface with optional USB, Ethernet with “print on disconnection” feature (TUP500 only), alongside traditional interface options

# TUP900 Series

## 80-112mm Wide (A4 Replacement) Open Frame / Modular Kiosk Printing Solution

- 150mm/second high quality thermal barcode, label, receipt, ticket and A4 kiosk printing solution for 80 – 112mm formats up to 0.15mm thick
- A4 to A6 automatic scalable raster driver for reduced, cost-saving A4 to Internet output on 112mm wide paper
- Easy paper loading and multi-position adjustable near end paper sensor with 80cm of cable for use with the high capacity paper roll supply option
- Adjustable horizontal or vertical mounted control panel with extended cable lengths for integration flexibility
- Easy-load – simply lift and tilt the mechanism forward and insert the paper for automatic paper loading

**Interface options:**  
Serial HD04, Parallel HC04, USB HU08



“High speed and cost effective, the TUP500 is ideal as a fast, reliable receipt or ticket printer for kiosk environments.”



### Reseller & Retailer Tip:







Our technical team are some of the most experienced in the business. Feel free to talk to them about your project and see if we can meet your individual customer requirements.

“Offering cost efficient thermal printing, the TUP900 is designed especially for kiosk or unattended printing applications producing fast and reliable wide format tickets and receipts.”

### Models available:

- TUP592 & TUP992**  
Open frame with moveable control panel and paper near end sensors via extended cables
- TUP542 & TUP942**  
Non presenter version for labels
- TUP500DP**  
Chassis option provides a more compact printer taking up to 25% less space with 10cm diameter paper roll
- TUP500DP Mini**  
Compact printer with external paper handling

# Kiosk/Terminal Specifications

STAR PRINTER SERIES	TUP592 / TUP542	TUP992 / TUP942	SK1-22 / SK1-32	SK1-21 / SK1-31	SK1-211 / SK1-311	SK1-41A
						
Description	Modular, Open Frame Thermal Kiosk/Terminal			Open Frame Compact Thermal		
	Direct Thermal Label, Receipt & Ticketing on Media up to 0.15mm thick					
	<b>TUP592 Presenter TUP542 no Presenter TMP500 Mech Modular Solution</b>	<b>TUP992 Presenter TUP942 no Presenter TMP900 Mech Modular Solution with A4 scale function</b>	<b>SK1-22 / SK1-32 "Bucket Drop-In &amp; Print" style Open Frame printers with email status feature</b>	<b>SK1-21 / SK1-31 No Presenter SK1-21-LP/ SK1-31-LP Presenter (use SK1-211/311 for new projects) with email status feature</b>	<b>SK1-211 / SK-311 No Presenter SK1-211-LP/ SK1-311-LP Presenter with email status feature</b>	<b>SK1-41 No Presenter SK1-41-LP Presenter with email status feature</b>
Max Print Speed	220mm/sec.	150mm/sec.	200mm/sec.	200mm/sec.	250mm/sec.	150mm/sec.
Resolution	203 dpi	203 dpi	203 dpi	203 dpi	203 dpi	203 dpi
No. of Columns	48 / 64 or 53 / 71 col. Depending on Paper Width	A4 Print Capability on 112mm Paper with Auto Scaling Software	Max 56 or 80 col. depending on printer model	Max 56 or 80 col. depending on printer model	SK1-211: Max 56 col. SK1-311: Max 80 col. Depending on Paper Width	Max 104 col. (8 x 16) Max 69 col. (12 x 24) Depending on Paper Width
Autocutter	Full or Partial (Guillotine) Full only with PR500 Presenter & TUP592	Full or Partial (Guillotine) Full only with PR900 Presenter & TUP992	Full or Partial (Guillotine)	Full or Partial (Guillotine) Full only with Presenter	Full or Partial (Guillotine) Full only with Presenter	Full or Partial (Guillotine) Full only with Presenter
Paper Width	45 – 82.5mm Adjustable	80 – 112mm Adjustable	SK1-22: 58 / 60mm SK1-32: 58 / 60 / 80 / 83mm	SK1-21: 58 / 60mm SK1-31: 58 / 60 / 80 / 83mm	SK1-211: 58 / 60mm SK1-311: 58 / 60, 80 / 83mm	80 / 83 / 112mm
Paper Thickness	0.065 – 0.15mm	0.065 – 0.15mm	0.059 – 0.15mm	0.059 – 0.15mm 0.10mm with presenter	0.059 – 0.15mm 0.10mm with presenter	0.059 – 0.15mm 0.075mm with presenter
Paper Roll Standard option	Standard: 150mm RHU Option: 254mm (180mm vertical)	Standard: 150mm RHU Option: 254mm (180mm vertical)	83mm (uses standard 80mm receipt roll)	Standard: 120mm 200mm option – talk to Star Support@Star-EMEA.com	Standard: 120mm 200mm option – talk to Star Support@Star-EMEA.com	Standard: 120mm 250mm option HL3-SK141
Media Presentation	Front exit on all versions with LED Bezel option (do not use labels with presenter)	Front exit on all versions with Metal Bezel option (do not use labels with presenter)	Front exit with Plastic or LED paper exit Bezel options	Front exit on all versions with LED or Plastic Bezel options (do not use labels with presenter)	Front exit on all versions with built-in LED Bezel Presenter (no labels), LED or Plastic Bezel options	Presenter with Document Capture (not for labels). Plastic Paper Exit Guide option
Print Width	80mm	104mm with scaled A4 Print on virtual A6 paper	SK1-22: 54 / 56mm SK1-32: 54 / 56 / 72 / 80mm	SK1-211: 54 / 56mm SK1-311: 54 / 56 / 72 / 80mm	SK1-211: 54 / 56mm SK1-311: 54 / 56 / 72 / 80mm	72 / 80 / 104mm
Sensors	Black Mark, Adjustable Paper End with 80cm cable, Near End & Paper Low	Black Mark, Adjustable Paper End with 80cm cable, Near End & Paper Low	Paper Near End, Paper Empty, Head Open Sensor, Black Mark Sensor, Gap Sensor (option on SK1-22)	Paper Near End, Paper Empty, Head Open Sensor. Options: Black Mark Sensor (option SK1-31 only), Gap Sensor	Paper Near End, Paper Empty, Head Open Sensor, Black Mark Sensor, Gap Sensor	Paper Near End, Paper Empty, Head Open Sensor. Options: Black Mark Sensor & Gap Sensor
Interface	Supplied without Interface. Options: 9-pin or 25-Pin Serial (IFBD-HN03 or IFBD-HD03), Parallel (IFBD-HC03), USB (IFBD-HU07), Ethernet (IFBD-HE07)	Supplied without Interface. Options: 9-pin or 25-Pin Serial (IFBD-HN04 or IFBD-HD04), Parallel (IFBD-HC04), USB (IFBD-HU08)	Dual Interface – Serial & USB	Dual Interface – Serial & USB SK1-21-H / SK1-31-H 12V versions available for solar panel etc.	Dual Interface – Serial & USB	Dual Interface – Serial & USB
Unique Ethernet Print on Disconnection feature	Standard with IFBD-HE07 option	Contact Star for more details	No	No	No	No
Power Supply	External Option PS60	External Option PS60	External Option PS60 with CB-SK1-D3 cable	External Option PS60 with CB-SK1-D3 cable	External Option PS60 with CB-SK1-D3 cable	External, SA1-3A240 (optional)
Power Consumption	40.8W Printing 16.8W Standby	40.8W Printing 1.92W Standby	60W Printing 1.68W Standby	60W Printing 1.68W Standby	60W Printing 1.68W Standby	60W Printing 1.68W Standby
Operating Environment	Temperature: 0°C to +50°C Humidity: 10% RH to 80% RH	Temperature: 0°C to +50°C Humidity: 10% RH to 80% RH	Temperature: -20°C to +60°C Humidity: 20% RH to 85% RH	Temperature: -20°C to +60°C Humidity: 20% RH to 85% RH	Temperature: -20°C to +60°C Humidity: 20% RH to 85% RH	Temperature: -20°C to +60°C Humidity: 20% RH to 85% RH
Power Supply with Energy Star Certificate	External Option PS60	External Option PS60	External PS60 (option) with CB-SK1-D3 cable	External PS60 (option) with CB-SK1-D3 cable	External PS60 (option) with CB-SK1-D3 cable	External Option SA1-3A240 with Power Lead (not Energy Star qualified)
Reliability	60 million lines 1 million cuts	37 million lines 1 million cuts	60 million lines 1.5 million cuts	60 million lines 1.5 million cuts	60 million lines 2 million cuts	60 million lines 1.5 million cuts
Dimensions (w x d x h) mm Weight	TUP592: 160 x 234.1 x 179 2.5kg TUP542: 160 x 185 x 179 2.3kg TMP500 Mech: 134.9 x 100.6 x 102.8 / 700kg	TUP992: 192 x 249.3 x 179 2.84kg TUP942: 190.7 x 199.1 x 179 2.54kg TMP900 Mech: 176.2 x 101 x 122 / 748g	SK1-22: 104 x 140.3 x 69.7 580g SK1-32: 128 x 174.5 x 74.2 730g	SK1-21: 104 x 129.2 x 73.6 525g SK1-31: 127 x 129.2 x 73.6 630g	SK1-211: 104 x 129.2 x 73.6 525g SK1-311: 127 x 129.2 x 73.6 630g	80mm roll: 160.9 x 143.1 x 76.3 120mm roll: 160.9 x 159.3 x 88.1 without presenter 885g
Document Capture	Document Capture	Document Capture	Document Capture	Document Capture	Document Capture	Document Capture
Peripheral Host Ports / Hub	None	None	None	None	None	None
Options	<ul style="list-style-type: none"> <li>• Interfaces (see above)</li> <li>• Green &amp; Red LED Bezel Snout TMP500</li> <li>• Near End Sensor NEUT500</li> <li>• 25cm Paper Roll RHUT500 See www.Star-EMEA.com</li> </ul>	<ul style="list-style-type: none"> <li>• Interfaces (see above)</li> <li>• Metal Paper Snout TUP9</li> <li>• Near End Sensor NEU-T900</li> <li>• 25cm Paper Roll RHU-T900 See www.Star-EMEA.com</li> </ul>	<ul style="list-style-type: none"> <li>• Serial cable CB-SK1-S4</li> <li>• DC cable CB-SK1-D1</li> <li>• USB cable BLM-1.5U</li> <li>• PS60 Power Supply</li> <li>• Plastic Bezel BZ-SK1 See www.Star-EMEA.com</li> </ul>	Presenter options: <ul style="list-style-type: none"> <li>• Standard PR-SK1 + LED Bezel Presenter PR2-SK1</li> <li>• Plastic Bezel BZ-SK-1 / BZ-SK-2</li> <li>• LED Bezel LB-SK1-1B (no presenter use)</li> <li>• PS60 PSU + Connector CB-SK1-D3</li> <li>• 20cm Paper Roll option – talk to Star Support@Star-EMEA.com</li> </ul>	Presenter options: <ul style="list-style-type: none"> <li>• Standard PR-SK1 + LED Bezel Presenter PR2-SK1</li> <li>• Plastic Bezel BZ-SK-1 / BZ-SK-2</li> <li>• LED Bezel LB-SK1-1B (no presenter use)</li> <li>• PS60 PSU + Connector CB-SK1-D3</li> <li>• 20cm Paper Roll option – talk to Star Support@Star-EMEA.com</li> </ul>	<ul style="list-style-type: none"> <li>• PSU SA1-3A240</li> <li>• USB cable CB-SJ1-S1</li> <li>• Connector CB-SK1-D3</li> <li>• 25cm Paper Roll option HL3-SK141 See www.Star-EMEA.com</li> </ul>

► Industry standard 1D & 2D barcode support on all printers

# Kiosk / Terminal Specifications

**NEW**

STAR PRINTER SERIES	TSP700II	TSP847II	SK1-22 / SK1-32	mC-Print3	TSP100	TSP654II	HI X CloudPRNT Interface
Description	Packaged Specialist Kiosk / Terminal		New Open Frame & Packaged Tablet Terminal Printing Solutions				End User "Plug-in" Interface
	Direct Thermal Label, Receipt & Ticketing on Media up to 0.15mm thick		Direct Thermal Label, Receipt & Ticketing	Direct Thermal Receipt & Ticketing			
	TSP743II Robust 80mm Printer used in Kiosks all over the World – 10cm Paper Roll	TSP847II Unique 112mm Printer with 10cm Paper Roll replacing A4 printers with a lower Running Cost Solution	SK1-22 / SK1-32 "Bucket Drop-In & Print" style Open Frame printers with email status feature	mC-Print3L Front Loading / Paper Exit multi-interface cube printer with Lightning iOS and PC-Free, remote CloudPRNT with multi-Peripheral Hub	TSP143III USB Low, low cost Lightning iOS Packaged Printer able to connect directly to iOS tablets "Data & Charge" (NO Bluetooth / LAN needed)	TSP654II High speed, compact Packaged Printer with low cost Remote Printing / "PC-Free" CloudPRNT version with multi-Peripheral hub	TSP654II HI X / TSP743II HI X / TSP847II HI X PC-Free, remote CloudPRNT Packaged Printers with multi-Peripheral hub
Max Print Speed	250mm/sec.	180mm/sec.	200mm/sec.	250mm/sec.	250mm/sec.	300mm/sec.	Varied up to 300mm/sec.
Resolution	203 dpi, 406 x 203 dpi selectable	204 dpi, 406 x 203 dpi selectable	203 dpi	203 dpi	203 dpi	203 dpi	203 dpi
No. of Columns	48 / 64 or 53 / 71 col.	"Reduced" A4 print capability with Auto Scaling Driver	48 / 64 or 53 / 71 col.				
Autocutter	Full or Partial (Guillotine)	Full or Partial (Guillotine)	Full or Partial (Guillotine)	Partial Cut (Guillotine)	Partial Cut (Guillotine)	Partial Cut (Guillotine)	TSP654II: Partial Cut (Guillotine), TSP743II / 847II: Full or Partial Cut
Paper Width	80mm (default) 82.5, 58mm selectable	112mm Standard 80mm Paper Guide option	SK1-22: 58 / 60mm SK1-32: 58 / 60 / 80 / 83mm	80mm (58mm with guide)	80mm (58mm with guide)	80mm (58mm with guide)	TSP654II: 80mm TSP743II / 847II: 80mm (82.5 & 58mm), TSP847II: 112mm
Paper Thickness	0.065 – 0.15mm	0.065 – 0.15mm	0.059 – 0.15mm	0.043 – 0.075mm	0.065 – 0.085mm	0.065 – 0.15mm	TSP654II: 0.053 – 0.085mm 743II / 847II: 0.065 – 0.15mm
Paper Roll Standard option	100mm	100mm	83mm (uses standard 80mm receipt roll)	83mm	83mm	83mm	TSP654II: 83mm TSP743II / 847II: 100mm
Media Presentation	User Selectable Paper Delivery option with Mounting Bracket included & Optional Paper Exit Guide	User Selectable Paper Delivery option	Front exit with Plastic or LED paper exit Bezel options	Front Paper Exit / Front Paper Loading	Front feed in vertical position with "Drop-In & Print" paper loading. Vertical bracket included in box	User Selectable Paper Delivery option with Mounting Bracket included	Front feed in vertical position with "Drop-In & Print" paper loading. Vertical bracket included in box (not TSP847II)
Print Width	80mm max.	104mm	SK1-22: 54 / 56mm SK1-32: 54 / 56 / 72 / 80mm	72mm, 50.8mm (with guide)	72mm, 50.8mm (with guide)	72mm, 50.8mm (with guide)	TSP654II: 72mm, 50.8mm (with guide). TSP743II: 80mm max. TSP847II: 104mm max.
Sensors	Black Mark, Paper End, Cover Open, Near End Horizontal & Vertical	Black Mark, Paper End, Cover Open, Near End Horizontal & Vertical	Paper near end, Paper Empty, Head open sensor, Black Mark sensor, Gap sensor (option on SK1-22)	Paper End, Near End, Cover Open	Paper End, Cover Open	Paper End, Near End, Cover Open	TSP654II: Paper End, Cover Open, Near End Sensor Horizontal & Vertical TSP743II / 847II: as before plus Black Mark
Interface	Serial, Parallel, USB and Non-Interface versions. Plug-in Options: Serial (IFBD-HD03), 9-Pin Serial (HN03), Parallel (HC03), Ethernet (HE07), WebPRNT (HE07X), HI X CloudPRNT (HI01X). New Bluetooth (Apple iOS, Android, Windows) versions available	Serial, Parallel, USB and Non-Interface versions. Plug-in Options: Serial (IFBD-HD03), 9-Pin Serial (HN03), Parallel (HC03), Ethernet (HE07), WebPRNT (HE07X), HI X CloudPRNT (HI01X). New Bluetooth (Apple iOS, Android, Windows) versions available	Dual Interface – Serial & USB	USB Traditional, Lightning iOS USB "Data & Charge", PC-Free remote CloudPRNT, LAN (LB version also features Bluetooth) plus 2 host ports	USB Traditional, Lightning iOS USB "Data & Charge" (Traditional USB cable included – for Lightning use the tablet cable provided by Apple)	Serial, Parallel, USB and Non-Interface versions. Plug-in Options: Serial (IFBD-HD03), 9-Pin Serial (HN03), Parallel (HC03), Ethernet (HE07), WebPRNT (HE07X), HI X CloudPRNT (HI01X). New Bluetooth (Apple iOS, Android, Windows) versions available	Star HI01X CloudPRNT Interface with LAN & USB plus 2 host ports. Can use WiFi Dongle option
Unique Ethernet Print on Disconnection feature	Standard with IFBD-HE07 & IFBDHI01X options	Standard with IFBD-HE07 & IFBDHI01X options	No	Yes	No	Standard with IFBD-HE07 & IFBD-HI01X options	Yes
Power Consumption	43.2W Printing 3.6W Standby	48W Printing 2.88W Standby	60W Printing 1.68W Standby	36W Printing 1.44W Standby	38.4 Amps Printing 2.4 Amps Standby	45.6 Amps Printing 3.6 Amps Standby	TSP654II / 743II / 847II: 45.6A / 40.8 / 40.8W Printing 3.6A / 16.8 / 1.92W Standby
Operating Environment	Temperature: 5°C to 45°C Humidity: 10% to 90% RH	Temperature: 5°C to 45°C Humidity: 10% to 90% RH	Temperature: -20°C to +60°C Humidity: 20% to 85% RH	Temperature: 5°C to 45°C Humidity: 10% to 90% RH	Temperature: 5°C to 45°C Humidity: 10% to 90% RH	Temperature: 5°C to 45°C Humidity: 10% to 90% RH	Temperature: 5°C to 45°C Humidity: 10% to 90% RH
Energy Star Qualified Power Supply	External PS60 (option)	External PS60 (option)	External PS60 (option) with CB-SK1-D3 cable	External PS60C included	Internal with power cable included	External PS60 (option) included in price. Check with your reseller	External PS60
Reliability	60 million lines 2 million cuts	37 million lines 2 million lines	60 million lines 1.5 million cuts	60 million lines 2 million cuts	60 million lines 1 million cuts	60 million lines 2 million cuts	60 million lines TSP847II 37 million lines 2 million cuts
Dimensions (w x d x h) mm Weight	147 x 213 x 148 1.75kg	180 x 213 x 148 1.9kg	SK1-22: 104 x 140.3 x 69.7 / 580g SK1-32: 128 x 174.5 x 74.2 / 730g	132 x 140 x 125mm 1.3kg	142 x 204 x 132 1.68kg	142 x 203.5 x 132 1.6kg	TSP654II: 142 x 203.5 x 132 / 1.6kg TSP743II: 147 x 213 x 148 / 1.75kg TSP847II: 180 x 213 x 148 / 1.9kg
Document Capture	No	No	No	No	No	No	No
Peripheral Host Ports / Hub	HI X version with 2 USB host ports for Star SCD222 Customer Display, Star 1D & Symbol / Zebra DS9208 2D scanners / WiFi Dongle	HI X version with 2 USB host ports for Star SCD222 Customer Display, Star 1D & Symbol / Zebra DS9208 2D scanners / WiFi Dongle	None	2 USB host ports for Star SCD222 Customer Display, Star 1D & Symbol / Zebra DS9208 2D scanners	None	HI X version with 2 USB host ports for Star SCD222 Customer Display, Star 1D & Symbol / Zebra DS9208 2D scanners / WiFi Dongle	2 USB host ports for Star SCD222 Customer Display, Star 1D & Symbol / Zebra DS9208 2D scanners / WiFi Dongle
Options	<ul style="list-style-type: none"> <li>Blue or Green &amp; Red LED Paper Exit Guide</li> <li>Various Plug-in Interfaces</li> <li>Buzzer • VST700 Desk Boot</li> <li>WiFi Dongle use with HI01X</li> <li>Splashproof cover</li> <li>Star 1D BCRPOP Scanner • DS9208 2D Scanner</li> <li>SCD222 Customer Display</li> <li>Vertical Mount Bracket included in box</li> <li>See www.Star-EMEA.com</li> </ul>	<ul style="list-style-type: none"> <li>Buzzer</li> <li>Various Plug-in Interfaces</li> <li>WB-T800 Wall Bracket</li> <li>VS-T800 Desk Boot</li> <li>WiFi Dongle use with HI01X</li> <li>Star 1D BCR-POP Scanner • DS9208 2D Scanner</li> <li>SCD222 Customer Display</li> <li>See www.Star-EMEA.com</li> </ul>	<ul style="list-style-type: none"> <li>Serial cable CB-SK1-S4</li> <li>DC cable CB-SK1-D1</li> <li>USB cable BLM-1.5U</li> <li>PS60 Power Supply</li> <li>Plastic Bezel BZ-SK1</li> <li>See www.Star-EMEA.com</li> </ul>	<ul style="list-style-type: none"> <li>WB-MC30 Wall Mount Bracket</li> <li>Star 1D BCR-POP Scanner • DS9208 2D Scanner</li> <li>SCD222 Customer Display • Buzzer BU01-24-A</li> <li>See www.Star-EMEA.com</li> </ul>	<ul style="list-style-type: none"> <li>TSP100 &amp; TSP654II options:                             <ul style="list-style-type: none"> <li>VS-T650/100 Vertical Desk Stand</li> <li>Buzzer BU01-24-A</li> <li>T100/650 Splash Proof Cover</li> <li>Vertical Mount Bracket included in box</li> <li>See www.Star-EMEA.com</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>Star 1D BCR-POP Scanner • DS9208 2D Scanner</li> <li>SCD222 Customer Display • Kitchen Buzzer</li> <li>TSP847II WB-T800 Wall Mount Bracket • Buzzer</li> <li>TSP743II Blue or Green &amp; Red LED Bezel</li> <li>Other Plug-In interfaces + WiFi Dongle</li> <li>See www.Star-EMEA.com</li> </ul>	

► Industry standard 1D & 2D barcode support on all printers