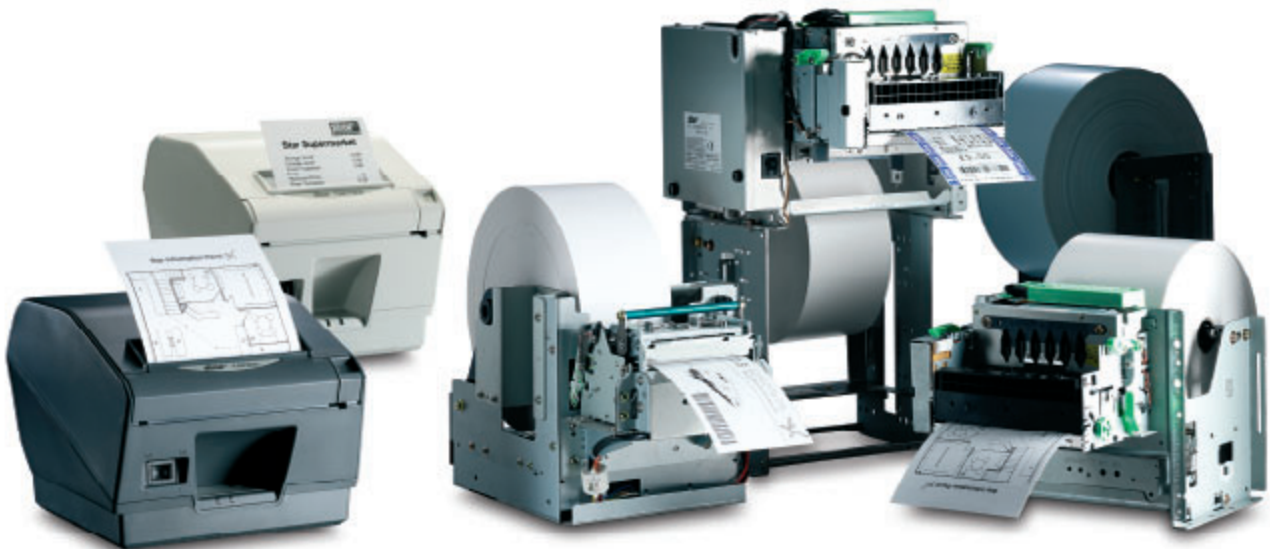




Cutting the queues with Star Kiosk Printing Technology

The number **one** choice for performance, reliability and value.



INFORMATION TERMINALS • TICKETING • GAMING • ENTERTAINMENT • INTERNET • LOYALTY • CAR PARKING



www.Star-EMEA.com

Cost vs Performance

Star can provide the Price / Performance Ratio your Kiosk Printing Solution requires, by providing the largest choice of products and features available...



A Choice of Technologies

The Right Star Kiosk Printer for You...

High speed, near silent, high quality Direct Thermal Output

TUP992 / 900 / 400 Series, TSP700II, TSP800

Low cost, up to 3 copy Matrix Printing Solutions

UP500, UP389, SP349

The majority of new projects use thermal technology as the slightly higher printer cost is outweighed by the paper being the only consumable and the fact that thermal printers are virtually maintenance free. Thermals tend to be more cost effective in the long term with the added benefits of higher quality, much faster throughput and near silent operation.

The obvious benefits of matrix technology include 2 part copy capability for journals, 58mm width for low cost ticketing etc. and lower paper costs, although thermal paper prices – especially standard receipt quality, have been much reduced over the last 5 years or so.

A Choice of Formats

Mechanisms with OEM or printer control board options for the more experienced kiosk builder

See Star Mechanisms Brochure & TUP900

Open Frame or Embedded units with dedicated kiosk features and simple installation

TUP992, TUP400 Series, UP500, UP389

Packaged printers for easy kiosk solutions and installations

Thermal TSP700, TSP800 Matrix SP200 etc.

See the Star Printer Brochure or contact David Porter kiosk@Star-EMEA.com for further information

A Choice of Speeds

Thermal speeds up to 250mm / second, over a metre of paper in just 5.5 seconds

TUP992 / 900 Series, TSP700II, TSP800

Matrix speeds up to 8.9 lines per second with logic seeking – a 40 column, 20 line receipt with graphics in just 6 seconds!

UP500 Series, UP389, SP349

A Choice of Paper

Widths:	58mm	Matrix	UP500
	60 – 82mm	Thermal	TUP400 Series
	76mm	Matrix	UP500, UP389, SP349
	80mm	Thermal	TUP992 / 900 / 400 Series, TSP700II, TSP800
	82.5 – 112mm	Thermal	TUP992, TUP900 Series
Thickness:	65 – 85gsm	Matrix	UP500, UP389, SP349
	Up to 100gsm / 0.10mm	Matrix	UP500
		Thermal	TUP400 Series with Presenter
Up to 150gsm / 0.15mm	Thermal	TUP942 / 900 Series / TSP700II / TSP800	

Printer Drivers

Star has made available a number of sophisticated Industry standard drivers to facilitate installation including Apple Mac™ JAVA-POS™, Linux CUPS Support™, OPOS™ and Windows™, which many kiosk builders prefer to the more basic drivers provided by cheaper, throw-away mechanism manufacturers.

However many projects do not need drivers as they communicate directly to the port, providing the kiosk builder with more flexibility i.e. in a Windows™ type environment, Windows™ will actually take over the print job, through the print manager. They can then use all the features and all the benefits of the Star product.

Star can help with some projects by producing customised source code or special utilities to access key features required by the OEM. Contact the Kiosk sales department for more information sales@Star-EMEA.com



Star Patented Specialist Drivers include:

- **High Speed Raster Driver** on TSP600 / 700 / 800 & TUP900 for even faster throughput.
- **A4 ⇒ A6 Automatic Scalable Raster Driver** for Barcodes, Tickets, Receipts, Information sheets or Gift and Wedding lists on the TUP900, TUP992 and TSP800. The Scalable Raster Driver will automatically scale A4 output on to 112mm paper width giving these kiosk solutions a universal appeal at no extra cost. This type of driver will also work on the Star TSP600 and TSP700 80mm printers.

Loyalty inspiring “Auto-Logo”

The packaged TSP700II 250mm / sec. thermal printer has been used in a number of retail kiosks from mobile top-up / pre-paid cards applications to standard receipting. The new TSP700II also features a number of software tools from Star's *futurePRNT's* Series allowing users to complement existing software with graphic management and coupon/text processing tools while providing a number of technical tools to facilitate integration. Contact Star for more details.



Packaged printers are not normally used in kiosk applications. However the TSP700 and TSP800 have been used in kiosks throughout Europe due to their ability to be positioned in a variety of angles. The external paper loading feature also



enables high capacity paper supply of media up to 150gsm / 0.15mm in weight, with a straight paper path. All this plus the easy paper loading facility for internal 100mm diameter rolls provides the kiosk builder with a unique, reliable and highly functional kiosk printer.

The Star Difference

Not only does the Star range of kiosk printers represent versatility on all levels, Star support is second to none. The secret to all success is dependant on attention to details from supplying the paper snout to assistance with integration at all levels.



Star has a team of experts to help with the design, installation and, if necessary, customisation of Star products to suit the job at hand. This level and quality of support only comes from a manufacturer who specialises in supplying long term kiosk printing solutions, not throw-away

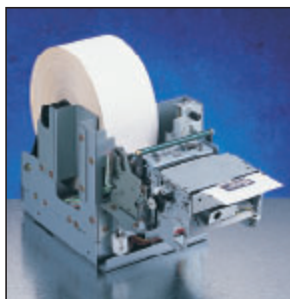
mechanisms. The Star solution is supported by three decades of expertise in the POS and kiosk markets resulting in a range of features designed to help increase business and kiosk traffic.

All supported by a range of sophisticated drivers with very easy-to-use utilities as well as the added ability of the Star technical team to create customised utilities for your individual project.

Take advantage of this expertise by contacting David Porter at techsupport@Star-EMEA.com for the help you require.

Jam Free Operation

The unique **Star Presenters** on the TUP492, TUP992, TUP900 and UP389 protect the variable length document during the print process from any customer contact by looping the paper within the printer and “presenting” it after the receipt, ticket or document has been printed and cut. The printer is therefore protected if the paper is pulled before it has finished printing



or been cut. In the past **thick heavy paper** has required a straight paper path as seen on the Star TUP452.

This is no longer the case as the new TUP992 can handle paper as heavy as 0.15mm / 150gsm through the new slim line presenter with a heavy duty guillotine cutter, with a reliability factor of 1 million cuts (MCBF).

Security

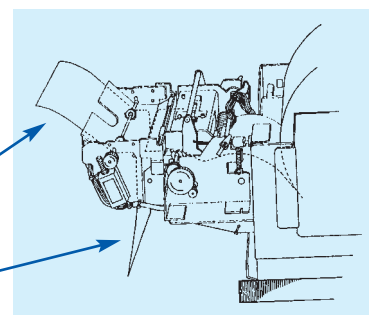
Some applications need to ensure that any unwanted documents are retrieved by the presenter on the TUP992, TUP900 or TUP492 and dropped into a disposal bin within the kiosk, preventing any unwanted litter or distribution of secure information on any printed output.

Document Capture

Increased security and continuous operation with an automatically cleared paper path for the next customer.

After printing, the document is separated from the paper supply roll and is presented to the customer.

Using the motorized presenter, the document can also be retrieved and disposed below the presenter.



The Star Reputation for Reliability and Choice of Specialist Features

Star is ever mindful of the fact that the majority of people who use and maintain Kiosks are not necessarily computer-literate. We have therefore included many features as standard for continuous, trouble free operation and maintenance –

presenters for jam free operation on most of our models, document capture, easy paper loading, high capacity paper supply, adjustable near end paper sensors, heavy duty cutters and of course print speeds second to none.

Star Kiosk Applications, Technology & Feature Summary

	TUP900	TUP942	TUP492Z	TUP452Z	UP542	UP389	SP349	TSP800	TSP700II Series
TECHNOLOGY	 Thermal Modular and Open Frame	 Thermal Modular and Open Frame	 Thermal Open Frame	 Thermal Open Frame	 Matrix Open Frame	 Matrix Open Frame	 Matrix Packaged	 Thermal Packaged	 Thermal Packaged
Speed	150mm / sec.	150mm / sec.	80mm / sec.	80mm / sec.	7.5, 4 lines / sec.	3.2 lines / sec.	3.2 lines / sec.	150mm / sec.	250mm / sec.
Paper Widths (including options)	80 to 112mm variable	80 to 112mm variable	60 to 82.5mm	60 to 82.5mm	58, 76mm	76, 82.5mm	57, 76, 82.5mm	58, 80, 82.5, 112mm	58, 80, 82.5mm
Star Specialist Kiosk Features	Two Colour ■■	Two Colour ■■						Two Colour ■■	Two Colour ■■
Looped Presenter System	∪		∪			∪			
Black Mark / Adjustable Paper Low Sensor	Yes	Yes	Yes	Yes	Yes	Option		Yes	Yes
Autocutter / Bi-directional Status Check	✂ ()	✂ ()	✂ ()	✂ ()	✂ ()	✂ ()	✂ ()	✂ ()	✂ ()
Interface	Ethernet & USB option	Ethernet & USB option						Ethernet & USB option	Ethernet & USB Option
Drivers Available (see guide below)	A4⇒A6, 1+1, 1,2,3	A4⇒A6, 1+1, 1,2,3	1, OPOS, JAVA-POS	1, OPOS, JAVA-POS	1, OPOS, JAVA-POS	1, OPOS, JAVA-POS	1, OPOS, JAVA-POS	A4⇒A6, 1+1, 1,2,3	A6⇒80mm, 1+1, 1,2,3
APPLICATIONS & SUGGESTED PRINTERS									
Automated Check-In / Check-Out	● up to 0.15mm	● up to 0.15mm	● up to 0.15mm	● up to 0.15mm				● up to 0.15mm	● up to 0.15mm
Banking – ATMs, Mini Statements	● Document Capture	● Document Capture	● Document Capture	●	●	●	●	●	●
Barcode / Labelling Facilities	● up to 0.15mm	● up to 0.15mm	● up to 0.15mm	● up to 0.15mm				● up to 0.15mm	● up to 0.15mm
Car Rental – Self Service	●	●	●	●	●	●	●	●	●
E-Commerce / Transactional Kiosks	112mm	112mm	●	●	1 + 2 (+ rewind)	1 + 2 (+ rewind)	1 + 2 (+ rewind)	112mm	●
Gaming	●	●	●	●	1 + 2 (+ rewind)	1 + 2 (+ rewind)	1 + 2 (+ rewind)	●	●
Information Terminal – Maps, Product Locator	112mm ■■	112mm ■■	●	●	●	●	●	112mm ■■	● ■■
Internet Access Kiosks	A4⇒A6 (112mm)	A4⇒A6 (112mm)	●	●				A4⇒A6 (112mm)	A6⇒80mm
Lottery Ticket Dispensers	3mm T.O.F	3mm T.O.F	3mm T.O.F	3mm T.O.F	3mm T.O.F			3mm T.O.F	3mm T.O.F
Parking Systems	● up to 0.15mm	● up to 0.15mm	● up to 0.10mm	● up to 0.10mm	●	●	●	● up to 0.15mm	● up to 0.15mm
Queuing System	●	●	●	●	●	●	●	●	Star Packaged Matrix
Retail – Coupons, Loyalty, Price Enquiry	112mm ■■	●	●	●	●	●	● ■■	● ■■	
Ticketing (Self Service) – Cinemas, Theatres etc.	● up to 0.15mm	● up to 0.15mm	● up to 0.10mm	● up to 0.10mm	● up to 0.10mm	● up to 0.10mm	● up to 0.10mm	● up to 0.15mm	● up to 0.15mm
Transportation Tickets – Motorway Tolls, Petrol Pumps	112mm up to 0.15mm	112mm up to 0.15mm	80mm up to 0.10mm	80mm up to 0.10mm	● up to 0.10mm	●	●	112mm up to 0.15mm	80mm up to 0.15mm
Vending Machines			●	●	●	●	●	●	●
Visitor / Security Access	●	●	●	●				●	See Star Card Series

Star Specialist Kiosk Features Guide

Paper Separation Methods:	∪ = Looped Presenter System	✂ = Heavy Duty Autocutter	■■ = 2 Colour output	● = Available as standard	T.O.F. = Top of Form
Drivers Available:	1 = Windows 95/98/NT4.0/ME/2000/XP/ Vista™, Linux™, MAC™	2 = High Speed Raster Driver for Fast Processing	3 = OPOS™, JAVA-POS™, MAC™ & Linux CUPS Support™		
	A4⇒A6 = Automatic Scalable Raster Driver	1 + 1 = Automatic 2nd Copy Raster Driver			TUP900 – available in open frame (TUP992) or modular component formats

Kiosk Maintenance

So many factors have to be taken into account for a manufacturer to provide OEMs and kiosk builders all over the world with the features that all the different projects and applications require.

Star has addressed this problem from all angles:

Large Capacity Paper Supply

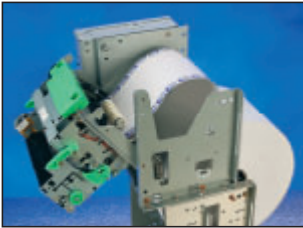
- 15cm / 5" roll with 25cm / 10" option on the TUP992, TUP900
- 20cm / 8" roll on the TUP400 Series
- 5¼" / 13cm on the matrix UP389



Easy Paper Loading

All Star printers have a full or semi-automatic paper loading facility i.e. automatic paper take up when the paper is introduced into the slot (select the TUP400 auto loading feature through the memory switch facility).

The TUP992 takes this one stage further with a "lift & tilt" mechanism for front loading without rails. The self centering guides on the spindle and paper slot along with the high quality tension roller are further details provided by Star to ensure continuous operation.



Remote Operation

Remote management can be vital to the on-going effectiveness of your kiosk and the new **Star Ethernet Interface** is the tool to achieve this. Not only useful in a network environment for re-routing print jobs, the Star Ethernet can automatically e-mail or text error situations such as paper low to any number of electronic mailboxes. The Star Ethernet even has its own web server, where clients can interrogate and check printer status. This interface is available on the TUP992, TUP900, TSP700 and TSP800.



Bi-directional status check through the serial or parallel interface is obviously available on all Star Kiosk printers. Star's latest Windows™ drivers make it easy for your application to check status at any time via any type of interface.

Running Costs

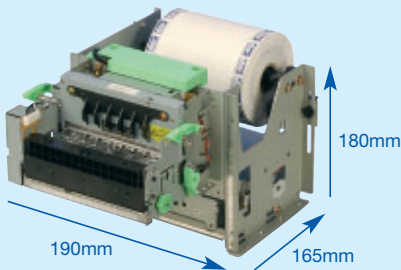
The differences between thermal and matrix technology used to be clear – silent fast running from thermal printers with matrix printers providing low capital outlay and low running costs. However the gap is closing fast and the choice is not so clear, matrix and thermal printers are becoming faster and standard thermal paper has come down in price.

Even the more expensive features such as two colour output on the thermal TUP900 and TUP992 are not as prohibitive as they were.

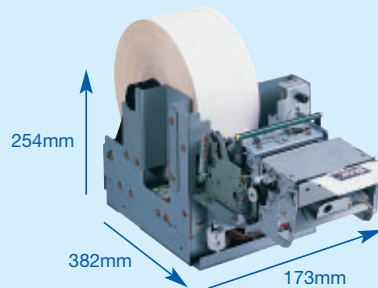
Contact Star to find out the latest prices and choices for your particular project kiosk@Star-EMEA.com

Footprint / Price / Performance Ratio

Three key factors to consider when choosing the right kiosk printing solution. Star is well known for reliability, versatility and support; now the latest products in the Star range of kiosk printers confirm that not only is the product right, but the price makes Star the strongest player in the kiosk market. Take advantage of a range that provides all of this.

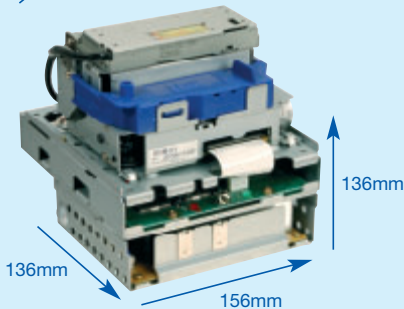


Star TUP992 Thermal Open Frame
150mm / second print speed.
TUP942 (version without presenter)

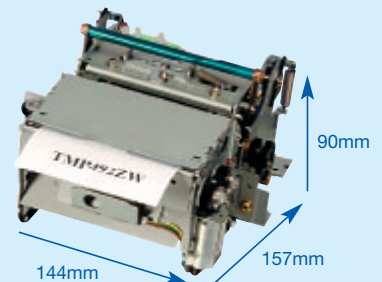


TUP492 Thermal Open Frame
80mm / second print speed

Star SP542 Matrix Open Frame
Up to 7.5 lines per second print speed with a bi-directional, Logic Seeking mechanism



Star TMP492
Up to 80mm per second print speed for paper widths from 60 – 82.5mm with heavy duty full cutter for paper up to 0.10mm / 100gsm thick



Star Installation

Every kiosk is unique with very different requirements. Various printers in the Star range can be mounted vertically or horizontally at varying angles with the paper roll behind,

on top or underneath allowing for the slimmest of kiosk designs. Contact the Star kiosk division to discuss your needs techsupport@Star-EMEA.com or +44 (0) 1494 471111.

Star Thermal Dedicated Kiosk Printing Solution Summary

TUP900 Series of Modular Components & TUP992 Open Frame Dedicated Kiosk Printing Solutions

TUP900 Series of Modular Components

- TMP942 Printer mechanism and cutter
- PR921 Presenter with document capture
- TBD900 Control Board
- PBD-9 Power Supply Board
- OPA-T900 Control Panel
- DRU-T900 Tension Roller
- NEU-T900 PNE Sensor
- Precision engineered Paper Spindle
- Paper Core Holders 1", 2" & 3"

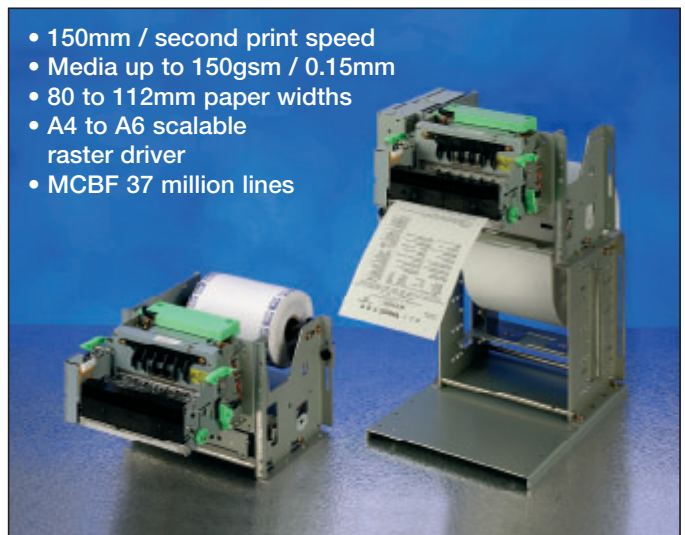


TUP992 Open Frame

- "Lift and Tilt" paper loading feature with frontal access eliminating the need for rails
- 5" / 12cm paper roll capacity with 12" / 25cm option
- 80 to 112mm paper width with auto centering guides and paper tension roller
- Adjustable black mark and multi-position paper near end sensor
- Slim line Presenter for media up to 150gsm / 0.15mm with document capturing facility
- Compact footprint 190 wide x 165 deep x 180 high (mm)
- Bi-directional interface with status check

TUP992 & TUP900 options include:

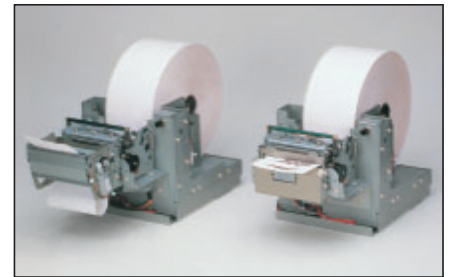
- 10" / 25cm Paper Roll Holder
- Choice of Ethernet, Serial, Parallel or USB Interfaces
- PS60L Slim line Power Supply



- 150mm / second print speed
- Media up to 150gsm / 0.15mm
- 80 to 112mm paper widths
- A4 to A6 scalable raster driver
- MCBF 37 million lines

TUP400 Series Open Frame with and without Presenters

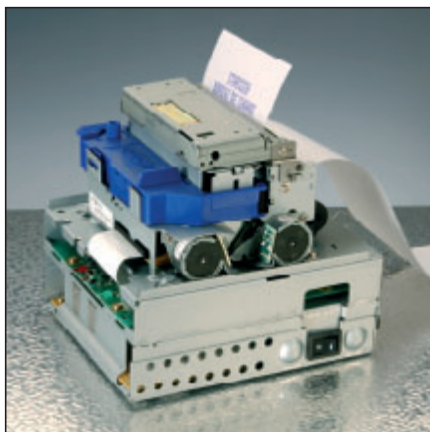
- 80mm per second print speed on paper from 60 to 82.5mm wide
- Autocutter version TUP452
- Presenter & document capture version TUP492 for media up to 100gsm / 0.10mm
- 8" / 203mm paper roll capacity
- Sensors include black mark, paper end and two paper low detectors
- Compact footprint 173 wide x 382 deep x 254 high (mm)
- MCBF 38 million lines



Star Matrix Dedicated Kiosk Printing Solution Summary

UP542 Open Frame Matrix Printer

- Up to 7.5 lines per second with bi-directional logic seeking mechanism
- "Drop-In & Insert" paper loading
- Internal power supply with IEC socket
- Compact footprint 136 (w) x 156 (d) x 136 (h) mm



- MCBF 22 million lines
- Full or partial cut autocutter
- Serial or parallel interface
- Control board
- 6 position black mark sensor
- 58 or 76mm paper width
- Media up to 100gsm / 0.10mm

SP349 Packaged Printer

- Up to 3.2 lines per second print speed
- Serial or parallel interface
- 57, 76, 82.5mm paper width
- Internal power supply
- MCBF 18 million lines
- Capacity for 5 1/4" / 13cm diameter roll of up to 2 part paper (max. 0.10mm / 100gsm)
- Full or partial cut autocutter



UP389 Open Frame Matrix Printer

- Same features as SP349 with presenter for jam free operation
- 76 or 82.5mm paper width



UP389 / SP349 Options

- RS-422 or 20mA current loop options
- Rewind / journal option
- Wall mount bracket

Full specifications can be found on www.Star-EMEA.com

The Star Choice in Kiosk Printer Technology and dedicated features spans three decades of specialist printer manufacture using direct thermal and matrix output from what must be the world's largest range of printers. A range covering barcode, label, receipt and ticket mechanisms for specialist kiosk or standard, packaged printers – printers to suit all types of environments. These are just a few examples of the diverse range catered for by Star Micronics.

Gaming

The Gaming Industry in Europe is changing at a rapid pace. However the “Las Vegas” cities of Europe will feature more prizes on paper than Las Vegas itself due to the new laws. High value prizes must now be collected with a claims ticket. The chink of money will now be replaced by the hum of the kiosk printer.

Features to take into account include:

- Type of Cutter or Presenter for delivery to customer
- Speed of ticket required
- Quality of paper
- Ethernet interface options
- Security barcode etc.



In-Store Info

The new E-Commerce Kiosks have allowed Retailers throughout Europe to expand their range of products without the need to carry more stock. Multi-function kiosks can not only carry a catalogue of products, but also provide customers with all types of store information including loyalty, product location etc.

Features to take into account include:

- Width of paper for maximum information (See Star unique 112mm width)
- Speed of ticket required
- Quality of Output



Entertainment

More and more cinemas and theatres can only survive by reducing the manpower needed. Ticketing booths are now the norm in this type of environment and as such RELIABILITY is key. Star's reputation over three decades inspires customer trust with a range of products to suit most budgets.

Features to take into account include:

- Choice of technologies – low cost matrix, high speed, high quality thermal
- Presenter – delivery method
- Weight / thickness of ticket



Car Parks

This is another example where reliability is key; and the choice of thermal or dot matrix, open frame or mechanism solutions with cut and drop or presenter options is necessary. Telephone Star to find a solution to suit your budget, choice of communication & preferred maintenance program.

Features to take into account include:

- Customer delivery method
- Quality of output
- Black mark sensors
- Paper roll capacity

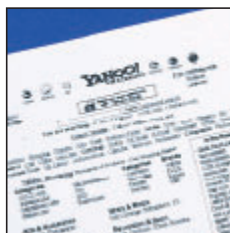


Internet

Star has a solution for whatever type of web access application your project needs – multi-media, data information, Internet kiosks in Cyber cafés or for simple e-commerce transactions. Star's unique Windows™ Scalable Raster Driver will automatically scale A4 pages or screen dumps onto A6 (112mm) wide paper.

Features to take into account include:

- Quality of Output
- Speeds up to 250mm / sec. (a metre of paper in just 5.5 seconds)
- Two colour capability



Loyalty

Retailers today have many opportunities to motivate and inspire customer loyalty. The Star range of kiosk printers will also inspire retailers in-store or via the internet with a range of unique features to introduce a new generation of transaction kiosks.

Features to take into account include:

- Star's unique *futurePRNT* marketing software for “text triggered” coupons and new graphic management tools.
- Two colour capability
- High quality graphics



All specifications are subject to change without notice.

04/07



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