

With over 10 years experience in the kiosk printing market, Star Micronics has developed what must be the one of the strongest OEM kiosk printer ranges available today. From packaged printers with vertical mounting for "cut and drop" applications to complex open frame printers with separate paper supply units and modular components which are used throughout the world in a variety of unattended public operations.

TUP992 Open Frame Printing Solution

All Specifications opposite apply

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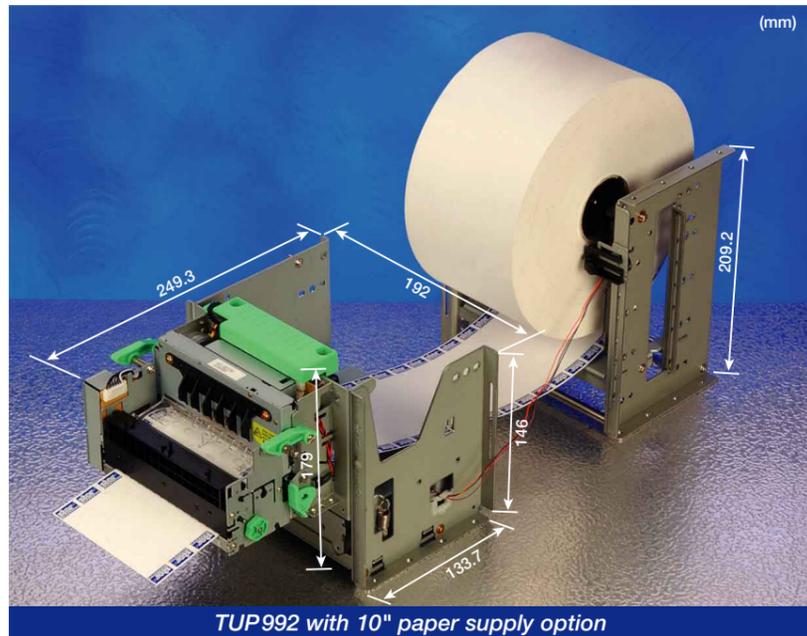
Manufacturer: **Star Micronics Co., Ltd.** **9001|ISO14001**
CERTIFIED

The specifications are subject without prior notice for upgrading. The pictures on this catalog may look different in color with the actual products due to printing condition. Windows is trademark of Microsoft Corporation, U.S.A.

SPECIFICATIONS

Mechanism – TMP942 & Cutter	
Print Method	Direct Thermal Line Printing
Print Speed	Up to 150mm per second
Top Margin	15mm (3mm selectable)
Paper Width	Min. 80mm to Max. 112mm
Print Resolution	8x8 dots/mm (203dpi)
Motor Torque	150gf or less
Paper Feed Speed	150mm / second
Paper Loading	Semi Automatic
Paper Specifications	
Media	Thermal Paper Rolls
2 colour printing	Special thermal paper required
Thickness	65g/m ² – 150g/m ² / 0.065 – 0.15mm
Roll Diameter	Up to 10" / 25.4cm
Paper Sensors	
	Black Mark / Paper End / Paper Low Sensors as standard
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
Control Board TBD900	
Flash ROM	8MBit
Logo Store	2MBit
Emulations	Star Line & Page Mode, ESC/POS™ to follow
Bar Code	UPC-A, UPC-E, JAN/EAN-8 JAN/EAN-13, ITF, CODE39, CODE93, CODE128, CODABAR (NW-7), (PDF417 & Maxicode to follow)
Code Pages	Star Mode = 40, ESC/POS™ Mode = 6 & 1 blank
Drivers	Windows 95/98/ME/2000/XP™, NT4.0™, OPOS™, Linux CUPS Support™, JAVA-POS™ (to follow), Apple MAC™, Star Raster Driver
Presenter Unit-PR900	
Driving Motor	1 DC motor
Paper Loop	Upper Side Loop
Ejecting Speed	300mm/s
Paper thickness	65g/m ² ~ 150g/m ² / 0.065 – 0.15mm
Paper length	75mm to 300mm
Paper Width	80 to 112mm
Sensors	3 paper sensors including presenter and document capture counter
Life	1 million receipts
Interface Board (same as TSP600)	
Interfaces available	Parallel, Serial RS232C
	USB
	9-Pin Serial RS232C
	Ethernet
Power Supply-PS60L	
Supply Voltage	24V DC
Input Voltage	100V (-10%) to 240V (+10%)
TUP992 Open Frame System	
Overall Dimensions	192mm (w) x 249.3mm (h) x 179mm (d)

06/03



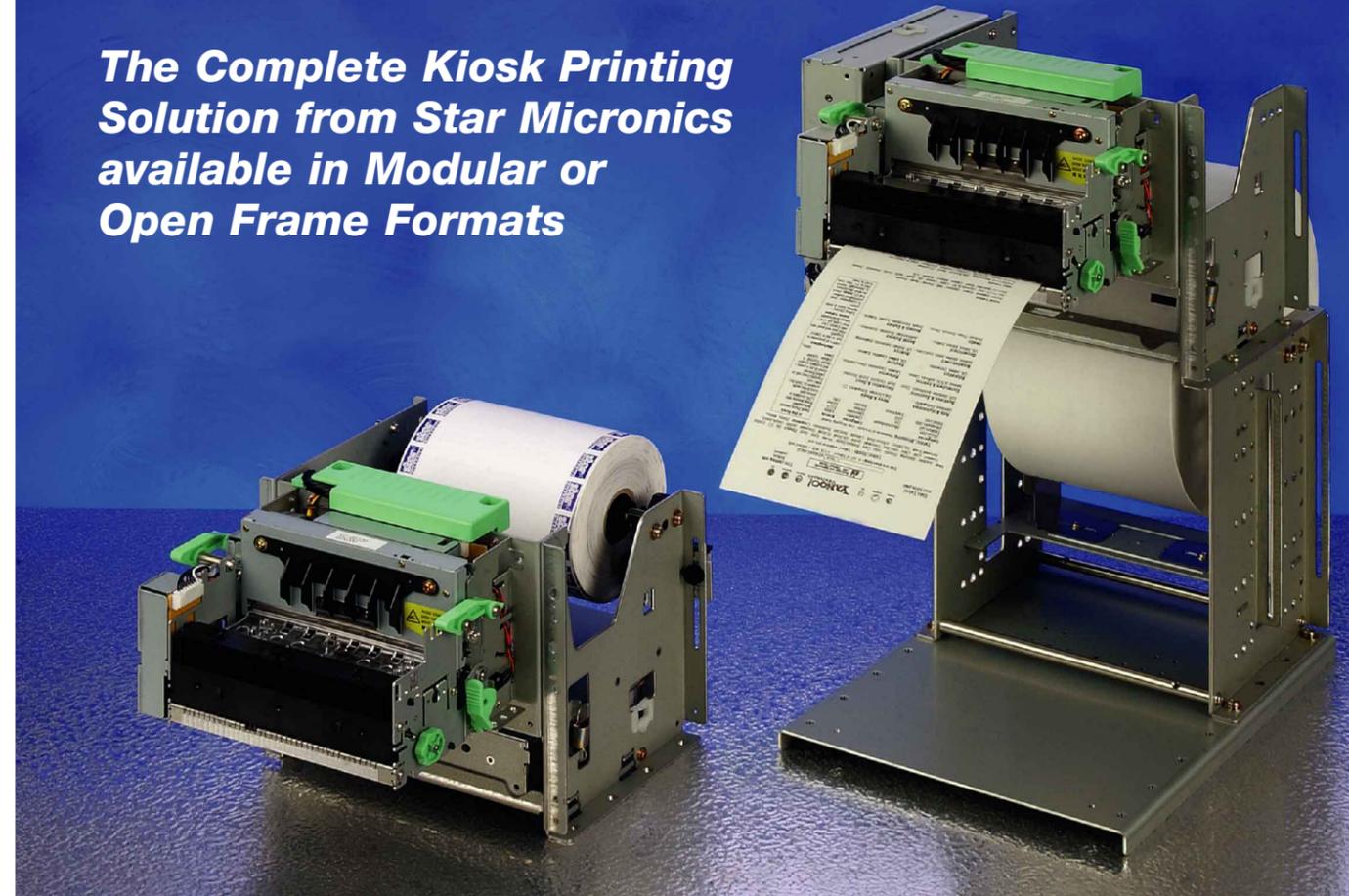
TUP992 with 10" paper supply option

The Complete Kiosk Printing Solution

THE TUP900 SERIES



The Complete Kiosk Printing Solution from Star Micronics available in Modular or Open Frame Formats



WHAT'S NEW?

The quality Star engineering of the TUP900 Series has now been combined with a new high quality 25.4cm Paper Supply option and open frame version to complete the unique TUP900 Kiosk Printer Series solution for paper formats from 80 to 112mm wide and up to 150gsm / 0.15mm thick.

Previously available as modular units, the new high speed TUP900 open frame system can be easily integrated into kiosks. The high quality engineering of the components and the 15cm pancake paper supply unit will provide kiosk builders with a unique and reliable kiosk printing system suitable for the majority of kiosk applications such as ticketing, lottery or internet etc. as well as providing a compact and more economic A4 replacement kiosk printer. Documents can be printed at 150mm/second – over half a metre of print in just 3.5 seconds.

The TUP900 Series of components will also still be available as modular units for OEM use offering the ultimate in flexibility.

TUP900 SERIES MODULAR COMPONENTS will include:



The new Open Frame TUP992 will feature the following:

- 150mm/sec. Print Mechanism and Cutter
- Control Board and Operational Panel
- Slimline Presenter for media up to 150gsm / 0.15mm
- Paper Supply Unit (15cm Paper Roll) with Near End Sensor (25.4cm roll holder option available)
- Power Supply Sub Board

The power supply and a range of interfaces will be available separately.

TUP992 OPEN FRAME PRINTING SOLUTION

The new TUP992 has been redesigned to provide system integrators with a "complete" product, which is simple to integrate into kiosk applications. Star has still retained product flexibility, making the TUP900 series one of the most versatile kiosk printing solutions available.

HIGH SPEED OUTPUT

High speed mono or two colour red/black, blue/black output of receipts, tickets or information can be printed at speeds up to 150mm per second. That is the equivalent to printing over half a metre of paper in just 3.5 seconds!



A4 A6 USING THE AUTOMATIC SCALABLE RASTER DRIVER

A4 printing could not be easier, more economic, so compact or indeed more environmentally friendly. The automatic scalable driver allows the TUP992 to format a page or screen image in the same way as a PC printer and then clearly print the reduced output onto 112mm wide paper!



COMPACT FOOTPRINT

The TUP992 open frame printer has a footprint of just 192mm wide by 179mm deep. This is smaller than many 80mm kiosk printing solutions let alone an A4 replacement 112mm printer. Fortunately the TUP992 handles paper from 80mm wide to 112mm and is economic for both solutions.

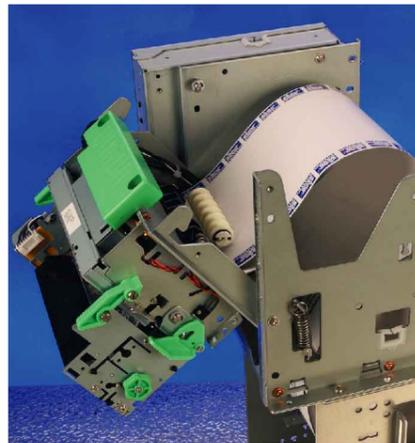


"LIFT & TILT" EASY PAPER LOADING

Simple Paper Loading – simply lift and tilt the printer mechanism forward and insert the paper for automatic paper loading.

NEW SLIMLINE PRESENTER

Capable of taking stock up to 150gsm / 0.15mm



FLEXIBLE MEDIA

Barcodes, receipts, tickets and A4 information sheets can all be printed on media ranging from 80mm in width to 112mm using paper up to 150gsm / 0.15mm thick.

The TUP900 can easily be adjusted using the self centering manual paper guides and the unique Star precision graduated spindle provided with the unit.

Also included are three interchangeable paper roll core fixings for the following paper core sizes: 25.4mm, 50.8mm and 76.2mm (1", 2" and 3").



Star Precision Graduated Spindle

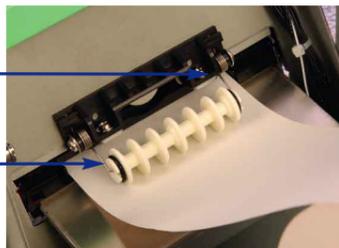
CONTROL PANEL

The TUP900 can be mounted with the control board on the underside or on the side of the unit for ultimate design flexibility and comes complete with power and error LEDs.



NEAR END PAPER SENSOR

The multi-position adjustable near end sensor can be easily and securely placed in any desired position to detect "paper low" on paper of various widths and diameters. The 11 position adjustable near end paper sensor with approximately 80cm of cable can be moved to a variety of positions as well as transferred to the optional high volume Paper Supply Unit.

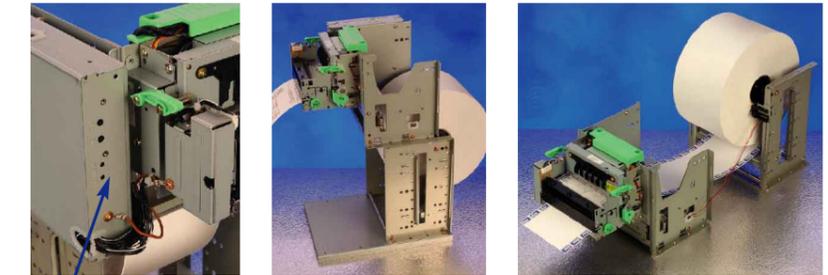


Easily adjustable, self centering, manual guides for different paper widths. The high quality tension bar will maintain the paper tension and decrease paper roll acceleration.

TUP900 OPTIONS

HIGH VOLUME PAPER ROLL SUPPLY

Large paper rolls up to 25.4cm in diameter and from 80mm to 112mm wide can be placed above, below or behind the printer mechanism for ultimate flexibility. This option is supplied flat packed and can use the spindle and paper core holders supplied with the TUP992 open frame unit. The multi-position adjustable near end sensor (also available on the TUP900 Open Frame unit) is transferable to the optional Paper Supply Unit.



Please note: possible new position of the **Control Panel** when using the high volume paper supply option and the TUP992 open frame unit in a vertical build position. The control panel can sit to the left of the presenter for easy maintenance and viewing.

INTERFACE OPTIONS

A range of **Interface Options** (also compatible with the TSP600) are available including RS232 Serial, Centronics Parallel, USB or Ethernet. The unique Star Ethernet Interface has been specifically designed for remote and unattended printer usage. The interface will allow the printer to automatically e-mail any error situations when necessary.

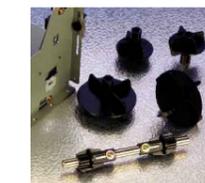


POWER SUPPLY OPTION

New compact PS60L power supply now available. Suitable for use with all Star printers featuring a hosiden connector.

COMPONENT OPTIONS

The following options may also be available for OEM builders using the TUP900 Series of component units including the TMP900 etc.



TMP942-24 Mechanism (Includes cabling and cutter)

TBD900 Control Logic Board

PR900 Presenter

DRU-T900 Tension Bar

NEU-T900 PNE Sensor

PBD-9 Power Board

Control Panel OPA-T900

Paper Spindle

Paper core holders 1", 2" & 3"

