# TUP500/900 Series

**Complete Kiosk Printing Solutions available in Modular or Open Frame formats**



TUP992

TUP592

TMP542

## TUP500 Printer Specifications

| Mechanism – TMP542 & Cutter | |
|---|---|
| Print Method | Direct Line Thermal Printing |
| Print Speed | • Up to 220mm per second*<br>• Default speed 180 mm per second |
| Printable Width | Max. 80mm |
| Top Margin | 11mm<br>(3mm selectable with reverse feed) |
| Print Resolution | 8x8 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 Near End (option) |
| Paper Specification | |
|    Width | 45 – 82.5mm |
|    Two Color Printing | Special Thermal Paper |
|    Thickness | 0.065 – 0.15mm |
|    Roll Diameter | Standard: Ø15cm<br>RHU-T500: Ø25.4cm Horizontal;Ø18cm Vertical layout |
| Autocutter | Full Cut (Guillotine) |
| Autocutter life | Up to 1 million cuts |
| Min/Max Cut Length | TUP542: 25mm, TUP592: 75-300mm |
| Print Head Life | 100 km (using recommended paper) |
| Reliability | 60 million lines (MCBF) |
| Mechanism Dimensions | TMP542: 134.9(W) x 100.6(D) x 102.8(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 |
| Bar Code | UPC-A, UPC-E, JAN/EAN-8 JAN/EAN-13, ITF,<br>CODE39, CODE93, CODE128, CODABAR<br>(NW-7), PDF417 & QR |

*For use with 80/82.5mm width paper with standard 15cm roll diameter

| Interface | |
|---|---|
| Interface Option | USB, Ethernet, Parallel, Serial |
| **Presenter Unit – PR500** | |
| Driving Motor | One DC Motor |
| Paper Loop | Upper Side Loop |
| Presenter Function | Document Eject / Document Capture<br>(Timed or Software controllable) |
| Ejecting Speed | 300 mm/s |
| Paper Thickness | 0.065 – 0.15mm |
| Paper Length | 70 to 300mm with Journal Mode for<br>End-Of-Day reporting |
| 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 Page | 40 + 1 blank |

**TUP500 Open Frame and Mechanism Options**
- USB, Ethernet, Parallel, Serial Interfaces
- PS60 Power Supply
- Ø 25 cm Paper Roll Holder (RHU-T500)
- Large Roll Damper Roller Unit (DRU-T500B)
- Paper Exit Guide (Snout) – LED lit with Flashing Attraction mode
- Weight bar (high capacity roll use) – PR5 (included at purchase)

## TUP900 Printer Specification

| Mechanism – TMP942 & Cutter | |
|---|---|
| Print Method | Direct Line Thermal Printing |
| Print Speed | Up to 150mm per second |
| Printable Width | Max. 104 mm |
| Top Margin | 15mm<br>(3mm selectable with reverse feed) |
| Print Resolution | 8x8 dots /mm (203 dpi) |
| Paper Feed Speed | Up to 150mm per second |
| Paper Loading | Semi Automatic |
| Paper Sensors | Black Mark / Paper End / Paper Near End (option) |
| Paper Specification | |
|    Width | 80-112mm |
|    Two Color Printing | Special Thermal Paper |
|    Thickness | 0.065 – 0.15mm |
|    Roll Diameter | Standard: Ø15cm<br>RHU-T900: Ø 25.4cm Horizontal Ø 18cm Vertical layout |
| Autocutter | Full Cut or Partial Cut<br>Full Cut only with Presenter PR900 & TUP992 |
| Autocutter life | Up to 1 million cuts |
| Min/Max Cut Length | TUP942: 25mm, TUP992: 75-300mm |
| Print Head Life | 100 km (using recommended paper) |
| Reliability | 37 million lines (MCBF) |
| Mechanism Dimensions | TMP942:162.5(W) x 94(D) x 50(H) mm |
| Open Frame Dimensions | TUP992:192(W) x 249.3(D) x 179(H) mm |
| Without Presenter | TUP942:190.7 (W) x 199.1(D)x 179(H) mm |
| Bar Code | UPC-A, UPC-E, JAN/EAN-8 JAN/EAN-13, ITF,<br>CODE39, CODE93, CODE128, CODABAR<br>(NW-7), PDF417 |

| Interface | |
|---|---|
| Interface Option | USB, Ethernet, Parallel, Serial |
| **Presenter Unit – PR900** | |
| Driving Motor | One DC Motor |
| Paper Loop | Upper Side Loop |
| Presenter Function | Document Eject / Document Capture<br>(Timed or Software controllable) |
| Ejecting Speed | 300 mm/s |
| Paper Thickness | 0.065 – 0.15mm |
| Paper Length | 70 to 300mm |
| Dimensions | 168.4(W) x 57(D) x 75(H) mm |
| Life | 1 million receipts |
| **Control Board TBD900** | |
| Flash ROM/SRAM | 2 x 8 Mbit flash ROM / 4 Mbit Static RAM |
| Logo Store | Enable |
| Emulations | Star Line & Page Mode, ESC/POS™ |
| Code Page | 40 + 1 blank |

**TUP900 Open Frame and Mechanism Options**
- USB, Ethernet, Parallel, Serial Interfaces
- PS60 Power Supply
- Ø 25 cm Paper Roll Holder (RHU-T900)
- Large Roll Damper Roller Unit (DRU-T900)

**TUP500 Series :** The NEW High Speed 220mm per second*, compact Kiosk Printing Solution able to print output on media from 45 – 82.5 mm wide and up to 0.15mm thick

**TUP900 Series :** The industry standard 150mm per second Kiosk Printing Solution able to print output on media from 80 – 112mm wide and up to 0.15mm thick

All Specifications are subject to change without notice.

## Star Performance

The new Super fast, versatile TUP500 Series can provide the highest printing speed available today from a modular open frame dedicated kiosk printer at 220mm per second* with a default speed of 180mm per second using the optional Ø25cm paper roll holder, while the TUP900 can also manage in a fast speed of 150mm/s on super-wide paper of up to 112mm.

## Star Flexibility

### Connectivity

In order to provide the most cost-effective solution, both TUP900 & TUP500 do not include Interface at purchase.

Customer could choose from our low cost interface options: serial, parallel, USB and ethernet.

Ethernet Option

### Positioning

The movable control panel and the multi-position adjustable paper near end sensor with 80 cm cabling give tremendous design flexibility, allowing the TUP500 & TUP900 series to fit in diverse kiosk layouts.

### Paper Roll Supply

Both the TUP500 & TUP900 series feature generous 15cm diameter paper roll handling as standard. However, with the option RHU-T900 or RHU-T500, 25cm diameter paper roll could be used in landscape mode or 18 cm diameter roll when used in vertical mode.

25cm diameter High Volume Paper Roll Supply option for Vertical or Horizontal use

### Adjustable Paper Width

Easily adjustable, self-centering, manual guides for different paper widths.

## Star Reliability

For years, Star has built up a reputation for Reliability, and the TUP500 / TUP900 are no exception – with a MCBF of 60 million lines and 37 million lines respectively, and a durable AutoCutter equipped to cut receipts up to 1 million times.
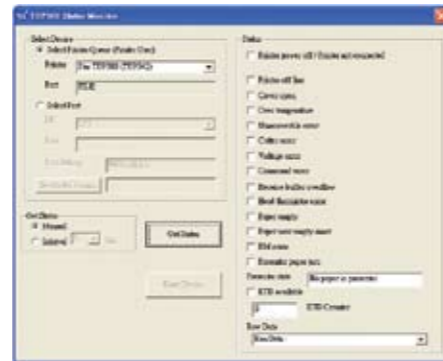
## Star Support

Same as other Star printers, TUP500 & TUP900 come with a quality suite of device drivers for easy integration into the majority of today's operating system: Windows™, Linux™, Mac™ and POS.Net™ etc.

Compatibility with most major operating system

The new TUP500 mirrors many of the features found in other models' Advanced Configuration Utility from simple Graphics management to Ethernet and Memory Switch set-up as well as Auto-Text reverse mode for vertical printer use.

The new TUP500 also features a simple, easy-to-use Status Monitor Tool (below), ideal for system integrators, software houses and users who want more control over their printing devices.

## Printer Models

### TUP592 & TUP992

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

### TUP542 & TUP942

Non presenter version
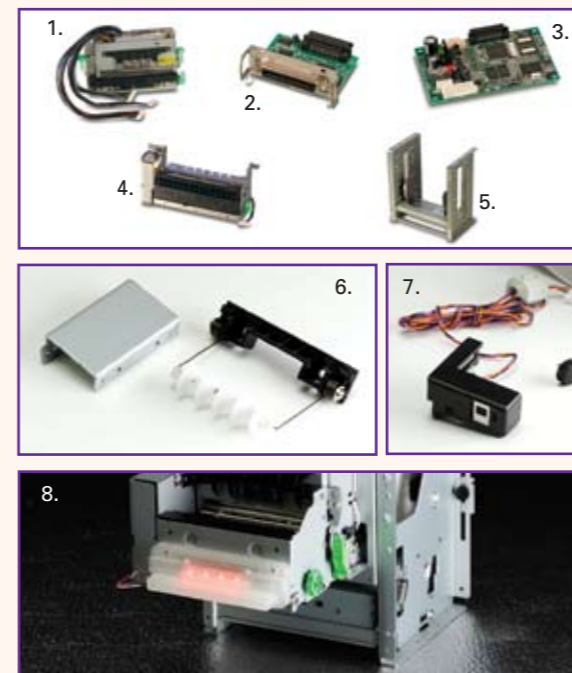
### TMP542 & TMP942

Mechanism only, with different components available to increase the design flexibility

## Typical Applications

- Versatile Kiosk Output from 45 to 112mm wide media with mono or two colour 203 dpi graphics
- Information Terminal (A4 to A6 Auto reduction)
- Lottery
- Self-service Flight boarding / Fast Food Orders
- Hotel Receipting
- Ticketing – Car Parks, Cinemas, Concerts, Exhibitions, Theaters
- ATM
- Queue Management

## Component Options

1. Compact TMP942 or TMP542 printer mechanisms with cutter
2. Choice of Interfaces
3. TBD900 and TBD500 Control boards as well as the relevant Power supply boards
4. PR900 and PR500 slim line presenters with document capture
5. RHU-T900 and RHU-T500 high capacity paper supply units
6. DRU-T900 and DRU-T500B Damper Roller options for use with high capacity paper supply unit
7. NEU-T900 & NEU-T500 Paper Near End sensors with extensive cables for flexible multi-positioning
8. Snout T500 – Paper Exit Guide with flashing LED attraction mode to highlight emerging printed document (only available in TUP500 series)

## Paper Loading Design

Easy Load – simply lift and tilt the mechanism forward and insert the paper for automatic paper loading.