# star TUP500

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# **Quick Setup Guide**



# **TUP500**

#### **Quick Setup Guide**

Thank you for choosing Star Micronics as your provider for printing solutions.

#### **Unpacking the Unit**



# Contents

- a. Printer
- b. Paper Shaft
- c. 1" Paper Core Adapter
- d. 2" Paper Core Adapter
- e. Shaft Weight\*
- f. Interface Mounting Screws(2)\*
- g. Paper Core Adapter Screws(4)

\*Not Pictured

#### Assembly – Installing the Interface

Place the interface sub-assembly into the interface slot as shown. Take care to be sure the interface cartridge is seated properly into its connector.

Using a #2 Phillips screwdriver, install the mounting screws located in back of the printer.





#### Assembly – Paper Roll Setup

It is necessary to adjust the paper roll holder for the width of the paper you use. If the setting position is incorrect, the paper roll will be supplied improperly to the mechanism which in turn causes paper transport problems. Thus, it is should be properly adjusted.





Fig. 3.6.2.2.C.



Position the Roll Paper Holder Edge on the Scale a



Fig. 3.6.2.2.E.

The following table shows the paper roll holder and paper core inner diameter range.

Paper roll Holder Types	Paper Core Diameter Ranges
Paper roll Holder (1)	25.4 mm ± 1
Paper roll Holder (2)	50.8 mm ± 1
Paper roll Holder (3) Optional	76.2 mm ± 1

Note 1) The unit is assembled for 1 inch paper cores when shipped from the factory. Also, it is set for a paper width of 82.5  $\pm$ 0.5 (take-up width of 83 +0.5/-1) when the printer is shipped from the factory.



Roll Holder Size	Paper Thickness
1" or 25.4 mm	65 to 100 μm
2" or 50.8 mm	100 to 150 µm
3" or 76.2 mm	100 to 150 μm

(7) Paper Guide Setting: See the table below. The paper guide can be adjusted in 2 mm increments. Lightly press the area near the Star mark on the left side guide lever (see Fig. 3.3.1.7) and slide the lever. Position the leading end A of the paper guide with the scale. Adjust the paper width according to the representative values below

- 1) Supports 82.5 mm paper: Position the end A of the paper guide to the scale a.
- 2) Supports 79.5mm paper: 3) Supports 57.5mm paper:
- (Factory Setting) Position the end A of the paper guide to the scale b. Position the end A of the paper guide to the scale c. (The ∆ mark is a guide.) Position the end A of the paper guide to the scale d. (The diamond mark is a guide.)
- 4) Supports 45mm paper:
- Notes
- If you use the printer with incorrect guide settings for the width of the paper used, paper 1.
- will skew, or paper jams can occur. Carefully check the operations using your layout and print media.



**3.0.2.2.** A is a reference for the paper roll holder unit paper roll shaft position. Adjust or mount the paper roll holder unit for the core diameter and width of the paper you intend to use.

#### 3-1 Handling 82.5 mm Paper Width

See Fig. 3.4.2.2.B for the paper roll holder setting position to handle paper widths of 82.5 ±0.5 mm. Position the roll paper holder edge at position scale c.

See the figure to assembly at the correct position.

Note 1) The paper roll holder is assembled to that position when shipped from the factory.

#### 3-2 Handling 79.5 mm Paper Width

See Fig. 3.4.2.2.C for the paper roll holder setting position to handle paper widths of  $79 \pm 0.5$  mm. Position the edge of the paper roll holder at position scale c

#### 3-3 Handling 57.5 mm Paper Width

See Fig. 3.6.2.2.D for the paper roll holder setting position to handle paper widths of 57.5 ±0.5 mm. Position the edge of the paper roll holder at position scale b

#### 3-4 Handling 45 mm Paper Width

See Fig. 3.6.2.2.E for the paper roll holder setting position to handle paper widths of 45  $\pm$ 0.5 mm. Position the edge of the paper roll holder at position scale d

#### Assembly – Paper Roll Setup Continued

Once the paper roll holder is properly configured for the roll to be used, simply insert the roll holder into the paper core as show.

Be sure that the cut end of the paper roll is properly cut to ensure proper paper loading.





To aid in the installation of the paper roll, the TUP500's mechanism is hinged to the base of the printer allowing the unit to fold open for easier access to the paper inlet path (see below)



Lift handle and pull unit forward.



Position the paper roll as shown.



In this position, it will be much easier to access the paper inlet for loading of paper.



Slide the cut end of the paper roll into the paper inlet being careful to feed the paper underneath the damper rollers.

#### Assembly – Connecting the Power Supply

The TUP500 requires a 24 VDC power source for proper operation. Star recommends use of the PS60A-24B (pt. no. 30781750) universal power supply.

The PS60A-24B power supply is supplied with a US standard grounded power cord.

The printer end of the power supply cable is the mating Hoshiden connector for the TUP500. Simply connect the Hoshiden power connection to the TUP500 by sliding back its collar and inserting the power supply's male connector into the matching female connector on the back of the TUP500. Finally, connect the 3-pronged power cord to a 110-volt grounded power source.

Note: Be sure the power switch of the TUP500 is switched to the OFF position when connecting the power supply.

#### **Driver Installation**

Driver packages are available for the following platforms:

Windows XP, 2000, VISTA, WEPOS, CE, and XP Embedded Mac OS X Linux JavaPOS<sup>1</sup> OPOS

1. Star's JavaPOS driver is platform independent and is compatible with any operating system that supports the Java Virtual Machine.

#### **Driver Software**

A Product CD is not supplied with the printer in the box. Request a CD from your reseller or download and install the latest version of the Star printer drivers at: <u>www.starmicronics.com</u>.

#### Windows Driver Installation

Windows Software Package Ver1.0: Star\_TUP500\_Software\_Ver100\_20090130.ZIP Includes: installer, Printer Driver, Configuration Utility, OPOS, JavaPOS (for Windows) OS: Win2K SP3, XP, Vista 32/64 (does not support configuration tool under 64bit)

Once you download the TUP500 Software package from our website at <u>www.starmicronics.com</u>, run the Star TUP500 installer.exe and follow the menu to proceed with the installation.

#### **Mac Driver Installation**

CUPS driver for Mac package: starcupsdrv-3.0.0\_mac\_20090130.zip Includes MAC OSX driver and manual. OS supported: Mac OS X 10.4.11 PowerPC, Intel Mac OS X 10.5.5 Intel

Once you download the MAC OSX CUPS driver package from our website <u>www.starmicronics.com</u>, run the starcupsdrv-3.0.0.pkg and follow the menu to proceed with the installation.

#### **Linux Driver Installation**

CUPS driver for Linux package: starcupsdrv-3.0.0\_linux\_20090130.zip Includes Linux driver and manual. OS supported: Red Hat Enterprise Linux 5, CentOS 5.2, OpenSUSE 11, Fedora 9, Ubuntu 8.04

Once you download the Linux CUPS driver package from our website <u>www.starmicronics.com</u>, run CUPS 3.0.0 and follow the menu to proceed with the installation.

#### **JavaPOS Installation**

JavaPOS for Linux package: starjavapos\_linux\_Ver1.9.13.ZIP OS supported: Ubuntu 8.04, OpenSUSE 10.3, Fedora 9

JavaPOS for Mac package: starjavapos\_intel\_mac\_Ver1.9.13.ZIP OS supported: Mac OS X 10.5 (intel)

Once you download the TUP500 JavaPOS driver package from our website <u>www.starmicronics.com</u>, run the Star JavaPOS installer and follow the menu to proceed with the installation.

#### **Status Monitor Tool**

Status Monitor Ver1.0 package: Star\_TUP500\_StatusMonitor\_Ver100\_20090130.ZIP Includes TUP500 Status tool, (via Printer LM, StariO) including SDK. StariO: Ver1.2.0.0 OS: Win2K SP3, XP, Vista 32bit

#### Installing the TUP500 Printer Driver

For USB installations:

Once the TUP500 Installer.exe is installed and you plug the printer in, the driver will Plug and Play and automatically install the driver and show up in Printers & Faxes.

For Parallel installations:

Click on Start Menu/All Programs/Star Micronics/TUP500/Utility/Add Printer Wizard (TUP500)

🛅 TUP500 🕨	💼 Utility 🔹 🕨	Add Printer Wizard (TUP500)
	🥳 Uninstall	🙀 TUP500 Configuration Utility

Continue following the Wizard to install the driver.

Printer configuration:

Open the driver properties and notice a TUP500 Config tab.

💐 Star TUP500 Presenter (TUP592) Properties 🛛 🔹 💽 🔀
Color Management         Security         Device Settings         TUP500 Config           General         Sharing         Ports         Advanced
Star TUP500 Presenter (TUP592)
Location:
Comment:
Model: Star TUP500 Presenter (TUP592)
Features
Color: Yes Paper available:
Double-sided: No Letter
Staple: No
Speed: Unknown
Maximum resolution: 406 dpi
Printing Preferences Print Test Page
OK Cancel Apply

Just click on the TUP500 Config tab and click on Launch Configuration Utility.

The utility will allow you to:

- 1) Configure specific printer settings like print speed, print density, paper width, snout control (bezel) and fonts, etc..
- 2) Load graphics into the internal printer memory
- 3) Perform print tests
- 4) Setup your Ethernet interface
- 5) Configure OPOS and JavaPOS driver for Windows

🜃 Star Configuration Utility				
File Help				
Printer Settings Memory SW Settings NVLogo Printer Tests	Memory SW Settings		Emulation -	
Ethernet I/F Setup	TUP592 VUSB003:Star TUP5	i00 Presenter (TUP592 🔽	Star Line Mode 🔽	Configure Port
Application Settings OPOS JavaPOS Common Data Image List	General Characters Communication Print Area Print Mode Print Speed Default Print Density Vertical Mount Mode Printing Trigger	Paper Feed Sensor 58mm Monochrome * Standard (180mm/second Normal * Disable * Page *		Load Settings Write Settings
	Load Format Number (Page Mode)	Not Specified when Powe	ron * 💌	
	Reset at Recover from Error	Invalid *	~	
	Snout Control	Snout LED GREEN and F	ED Enable	
star	-			Close

## **Configuring Ethernet**

In the configuration utility on the left side, click on Ethernet I/F Setup.

Then click on Search LAN for Printers and your printer should show up and display a temporary IP address.

To configure the printer with a Static IP address, click on Change TCP/IP Setting and follow the instructions on the screen to make the IP Static.

🜠 Star Configuration Utility					
File Help					
Printer Settings Memory SW Settings NVLogo Printer Tests Ethernet I/F Setup	Ethernet I/F	Setup			Troubleshooting
Application Settings OPOS JavaPOS	Printer List on LAN				
Common Data Image List	IP Address 192.168.192.130	Set by DHCP	MAC Address 00-11-62-04-88-6A	LAN Type 100/108ase-T	Printer Info TUP592 (STR_T-001)
star	Search LAN	for Printers	Change TCP/II	P Setting	Property

## **Configuring OPOS**

For USB installations – put Dip Switch #5 OFF to put the printer in vendor class mode. Launch the configuration application through the driver properties and click on OPOS on the left side Click on Add New on the right side. Select your Port and click OK. To test communication, click on Check Health.

🜠 Star Configuration Utility				
File Help				
Printer Settings Memory SW Settings NVLogo Printer Tests Ethernet I/F Setup Application Settings OPOS	OPOS			
JavaPOS	POSPrinter	-	Control Object Registrat	ion
Common Data	Device	Model	Port COM4-SMLUSP Device	Add New
lmage List	TUP032_1	10P932	CUM14:3MU USB Device	Delete
				Configure
				Check Health
		S	<u>I</u> gr	
star				Close

## **Configuring JavaPOS**

In the configuration utility on the left side, click on JavaPOS and click on Add New on the right side. Select your printer port and click OK. Click on Check Health and it will prompt you to save your .xml file. This is a one time message, select any location. A small test will print out confirming communication.

🜃 Star Configuration Utility					
File Help					
Printer Settings Memory SW Settings NVLogo Printer Tests Ethernet I/F Setup Application Settings OPOS JavaPOS	JavaPOS	jistry File	s\CBECIO\Deskton\inns	: xml	
Common Data Image List		and f		Save	Load
	POSPrinter		The second		
	Device	Model	Port		Add New
	TUP500_1	TUP500	USB001:Star TUP500 F	resenter (TUP592)	Delete
					Configure
					Check Health
		2	99		
star					Close

# **Checking Status**

If you implement the language monitor method to determine status, you will need to enable the status monitor.

💩 Star TUP500 Pre	senter (TU	P592) Properties	? 🔀
General	Sharing	Ports	Advanced
Color Management	Security	Device Settings	TUP500 Config
Click on the button to	launch the follo	owing utilities for your p	rinter.
- Configuration Utility-			
		Launch Configuration	n Utility
Printer Status Setting	9		
	L	aunch Printer Status S	etting Tool
		OK Cancel	Apply

Put a check mark next to Background status: Enable and click OK

🔀 Language Monitor Setting Tool	×
Printer Queue : Star TUP500 Presenter (TUP592) Settings Background Status : Enable Interval (0.1 - 240.0) : 0.5 (second ]	
Timeout (5-600): 180 🛟 [second]	
OK Cancel	

#### Other Utilities available

• Status monitor tool

elect Device			Status
C Select Prin	ter Gueue (Printer	User	Printer power off / Printer not connected
nicie I		-	E Party of los
Port			E Cover poro
Select Port	t.		C Over tenser that
1/F	PT	•	F Unecoverble error
Port	PT1:		E Cutter error
			☐ Vallage error
Port Setting	9500,n.8.	3.0	Command error
Get Model Ve	rsion		F Receive buller overflow
			Head thermator entry
t Status			F Paper mpty
Manual		Get Status	F Paper new emply meet
Interval	Dec.		F BM error
			Fresenter paper jam
		Reset Device	Presenter state
			ETB available
			ETB Courter
			BawData

The TUP500, like all Star printers, has a built-in diagnosis printout that can be manually printed to check the printer's current configuration. This "Self-Test" page also allows the user to confirm that the printer is in fact operating properly.



To print a printer self-test, simply follow the steps listed below.

- 1. Turn the printer's power switch to the OFF position
- 2. Press and hold the paper feed switch (SW1)
- 3. Turn the printer's power switch to the ON position
- 4. Release the paper feed switch (SW1)

NOTE: In order to print a self-test page, the printer must be properly loaded with paper and must have its power supply connected to a live power source.

#### Additional Documentation

This "Quick Setup Guide" is a condensed summary of the information available from all of the manuals available on our website <u>www.starmicronics.com</u> excluding Technical Manual. Listed below are the manuals available for the TUP500

**TUP500 Specification Manual (TUP500sm.pdf)** – This manual provides detailed specification for the configuration and use of the TUP500. Also included are dimensional drawings, electrical specifications, usage examples and ideal operating environment specifications.

**TUP500 Installation Manual (TUP500im.pdf)** – This manual provides details instructions for installing the shaft weight. The proper installation of this weight ensures proper paper feed and looping functionality of the TUP500's document presenter.

**TUP500 Technical Manual (TUP500tm.pdf)** – This manual is designed as a technical reference for periodic inspection and maintenance of the TUP500 series printers. Users of this manual should possess a technical aptitude that is typical of service personnel. This manual is not intended for the general user.

**Line Mode Programmer's Manual (lindemodepm.pdf)** – This reference manual provides the command specification for Star Line Mode for all thermal line printers from Star. It provides detailed commands and examples for controlling Star printers directly by command, without drivers.







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