2ST Label Printer

Windows Printer Driver

User's Manual

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This document describes the precautions for using the 2ST Label Printer Windows Printer Driver.

This document assumes that the reader is familiar with the following:

- General characteristics of Windows and Windows printer driver
- General characteristics of 2ST Label Printer

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1. System Requirement

OS:

Windows 2000(English) / XP Professional (English) Language: English Printer I/F: USB (Printer Class) LAN (TCP/IP) Parallel(Option)

2. Driver Installation guide

2-1. Install by Plug-N-Play by USB

Connect the printer by USB cable when powered on, and the windows OS will detect a new hardware, then go on 2.3 ("Hardware Wizard") and follow the steps to proceed the installation.

2-2. Install by Plug-N-Play by Parallel

Connect the printer by Parallel cable when powered on, and the windows OS will detect a new hardware, then go on 2.3 ("Hardware Wizard") and follow the steps to proceed the installation.

2-3. Install via "Add Printer"

Open Printers and Faxes, Click Add a printers



Click Next



Select "Local printer" and "Automatically detect and install my Plug and Play printer".



PC will detect new hardware and open "Hardware Wizard", go to 2.5 to proceed the succedent steps.

2-4. Install via "Add Printer" for LAN Open **Printers and Faxes**, Click **Add a printers**



Click Next



Select "Local printer".

a Filiner Wizara	
Local or Network Printer The wizard needs to know which type (of printer to set up.
Select the option that describes the prin	nter you want to use:
O Local printer attached to this computed to the second	iter
Automatically detect and install i	my Plug and Play printer
○ A network printer, or a printer attach	ied to another computer
To set up a network printer that use the "Local printer" option.	at is not attached to a print server,
	<pre></pre>

Select "Create a new port:" and Standard TCP/IP Port.

Then click "Next"

lect a Printer Port Computers communicate (with printers through ports.	¢
Select the port you want y new port.	our printer to use. If the port is not listed, you	can create a
\bigcirc Use the following port:	LPT1: (Recommended Printer Port)	~
Note: Most computers The connector for this	use the LPT1, port to communicate with a loc port should look something like this:	al printer.
60		
© <u>C</u> reate a new port:		
© Create a new port: Type of port	Local Port	<u> </u>

Click "Next"



Input printer IP address to "Printer Name or IP Address:".

Id Port For which device do you war	nt to add a port?	
Enter the Printer Name or IP a	address, and a por	t name for the desired device.
Printer Name or IP <u>A</u> ddress:		
Port Name:	DB-EA4DLAN	
Standard TCP/IP Prin	ter Port Wiza	< <u>B</u> ack <u>Next</u> > Cancel
	Complet	ting the Add Standard
	Complet TCP/IP You have sele	ting the Add Standard Printer Port Wizard cted a port with the following characteristics.
	Complet TCP/IP You have sele	ting the Add Standard Printer Port Wizard cted a port with the following characteristics. No
	Complet TCP/IP You have sele SNMP: Protocol:	ting the Add Standard Printer Port Wizard cted a port with the following characteristics. No RAW, Port 9100
	Complet TCP/IP You have sele SNMP: Protocol: Device:	ting the Add Standard Printer Port Wizard cted a port with the following characteristics. No RAW, Port 9100
	Complet TCP/IP You have sele SNMP: Protocol: Device: Port Name:	ting the Add Standard Printer Port Wizard cted a port with the following characteristics. No RAW, Port 9100 DB-EA4DLAN
	Complet TCP/IP You have sele SNMP: Protocol: Device: Port Name: Adapter Type:	ting the Add Standard Printer Port Wizard cted a port with the following characteristics. No RAW, Port 9100 DB-EA4DLAN Generic Network Card

PC will detect new hardware and open "Hardware Wizard", go to 2.5 to proceed the succedent steps.

2-5. Hardware Wizard

Found New Hardware Wiz	ard
	Welcome to the Found New Hardware Wizard Windows will search for current and updated software by looking on your computer, on the hardware installation CD, or on the Windows Update Web site (with your permission). Read our privacy policy Can Windows connect to Windows Update to search for software? Yes, this time only Yes, now and every time I connect a device No, not this time
	K Back Next > Cancel

When the New Hardware Wizard ask whether to connect to Windows Update, select **No**, **not this time** and click **Next**.

Found New Hardware Wi	zard
	This wizard helps you install software for: Toshiba TEC DB-EA4D
	If your hardware came with an installation CD or floppy disk, insert it now.
	What do you want the wizard to do? O Install the software automatically (Recommended) Install from a list or specific location (Advanced)
	Click Next to continue.

Select Install from a list or specific location (Advanced), Click Next

Select Search for the best driver in these locations, and then tick on Include this location in the search, Browse for the printer driver file location and click Next

ound New Hardware Wizard				
Please cho	ose your search and installation options.			
<u>⊚ S</u> earc	ch for the best driver in these locations.			
Use ti paths	he check boxes below to limit or expand the default search, which includes local and removable media. The best driver found will be installed.			
	Search removable media (floppy, CD-ROM)			
	Include this location in the search:			
	C:\Documents and Settings\User\Desktop\LPR			
🔿 Don't	search. I will choose the driver to install.			
Choo: the dr	se this option to select the device driver from a list. Windows does not guarantee that iver you choose will be the best match for your hardware.			
	< <u>B</u> ack <u>N</u> ext > Cancel			

The OS will give windows logo testing warning, just ignore and click Continue Anyway



After OS copied the driver files into system, Click Finish to complete installation



After installation, you'll see TOSHIBA DB-EA4Din the Printers and Faxes folder



2-6. Update Driver

To update driver, go to **printer properties** (see <u>3.Printer Properties and Settings</u>) and select **advanced** tab like the picture shown below.

Printer Configuration	Driver Settin	ng Printer	Status	Version
General Sha	aring Ports	Advanced	d De	vice Setting
 Always available Available from Priority: 1 Driver: TOSHIBA DB- 	12:00 AM	To 12:00 AM	Driver	
Spool print documen Start printing after Start printing immed Print directly to the print directly to the p	ts so program finishes r last page is spooled ediately rinter	printing faster		
Hold mismatched door Print spooled document Keep printed document Enable advanced printed	cuments ents first ents inting features			
Printing Defaults) Pri <u>n</u> t Processor	Separat <u>o</u> r	Page	

Then click on **New Driver** to update the driver. Select **Next** when **Add Printer Driver Wizard** window come up.

Then click on **Have Disk** button as shown in the picture below.

Printer Driver Sele The manufacture	ction rand model	determine which printer driver to use.	I
Select the mar your printer driv driver supplied	nufacturer an ver is not liste by your print	d model of the Windows XP printer driver you wan id, you can click Have Disk to select a Windows X er manufacturer.	t to install. If 《P printer
Manufacturer		Printers	
Agfa Alps Apollo Apple APS-PS		AGFA-AccuSet v52.3 AGFA-AccuSetSF v52.3 AGFA-AccuSet 800 AGFA-AccuSet 800SF v52.3	
This driver is digital Tell me why driver :	ly signed signing is imp	ortant	we Disk

Browse for the printer file location.

Add Printer Drive	er Wizard	
Printer Drive The manu	er Selection ufacturer and model determine which printer driver to u	se.
Install Fro	im Disk	If
Ma Agi Alp Api	Insert the manufacturer's installation disk, and then make sure that the correct drive is selected below.	OK Cancel
Ap(AP	<u>C</u> opy manufacturer's files from:	*
	C:\Documents and Settings\User\Desktop\LPR	Browse
<u></u>		Next> Cancel

Select **2ST_Label_Printer** and click **Next.**

Add Printer Wizard	
Install Printer Software The manufacturer and model determine wh	ich printer software to use.
Select the manufacturer and model of yo disk, click Have Disk. If your printer is no compatible printer software.	ur printer. If your printer came with an installation it listed, consult your printer documentation for
Printers TOSHIBA DB-EA4D	
1	
This driver is not digitally signed! <u>Tell me why driver signing is important</u>	Windows Update
	<back next=""> Cancel</back>

rties ? × Setting Printer Status Version Advanced Security **Device Setting** To v New Driver... Hardware Installation nishes printing faster Add Printer coled The software you are installing for this hardware: 1 Printers has not passed Windows Logo testing to verify its compatibility with Windows XP. [Tell me why this testing is important.] Continuing your installation of this software may impair or destabilize the correct operation of your system either immediately or in the future. Microsoft strongly recommends that you stop this installation now and contact the hardware vendor for software that has passed Windows Logo testing. essor... Continue Anyway STOP Installation ſ To close this wizard, click Finish. < Back Finish Cancel

Click **Finish** and click **Continue Anyway** when a **Hardware Installation** window comes up as shown in the picture below.

Lastly, **restart** the computer to update the printer driver.

3. Printer Properties and Settings

Click right button and select "Properties..." on the " **DBEA-4D**" icon to open the printer's property.



3-1. Printer Configuration

Under printer driver properties, go to "Printer Configuration" tab and click "Change Configuration".

TOSHIBA DB-EA4D Prop	erties		?
General Sharing	Ports	Advanced	Device Setting
Printer Configuration	Driver Setting	Printer Status	Version
Printer Configurati	on Configuration P Change Configu	intout	
	(

nfiguration Setting		
Printer Configuration ———— Paper type :	Perforation	>
Form Length (mm) :	158	
Print Density (Front) :	7	•
Print Density (Back) :	7	•
Power Control :	High(100W)	•
Print Speed Control :	3.0 ips	
Maximum variable :	6.0 ips	
Error Page Recovery:	OFF	
BM Cut Position Offset (mm) :	0.00	
Paper Width :	102mm (4.0")	•
Paper Loading :	Auto	•
Get Configuration	Set Configura	ition
	Close	

Above window will be displayed and in this part we can get all printer settings here by pressing **Get Configuration**, and all can change the value for various settings, and press **Set Configuration** to save the settings into printer.

NB: In order to print configuration of the printer, it is necessary to change the paper setting of printer driver to "Document Length" mode.

Now under printer driver properties, go to Printer Configuration tab and click on "Configuration Printout" to print Diagnostic Form

General	Sharing	Ports	Advanced	Security	Device Setting
Printer C	onfiguration	Driver	Setting	Printer Status	Version
	Printer Configur	ration Conf	iguration Printo	on	

*** Diagnostics Forn ***	
MODEL Model Nunber Printer S/N Printer Engine S/N	: 000000000000000 : 000000000 - 000000000
FIRWWARE(Version, CRC)	
Boot Firnware Version	: V00.05, 96C0
Main Firnware Version	: V00.02, 3CUC : V00.11, 9E8F
SBCS CG Version	: VOD.10, 2142
COMMUNICATION INTERFACE	
Inteface Type Printer ID Address	: USB
Subnet Mask	: 255.255.255.0
Default Gateway	: 0.0.0.0
DHCP IP Address	: 0.0.0.0
Community Read Only	: public
IP Trap1 Trap	: Disable
IP Trap1 Address	: 0.0.0.0
IP Trap2 Trap	Disable
IP Trap2 Address	: 0.0.0.0
Socket Port(TCP)	9100
Socket Port(UDP)	: 3000
MAC Address	: 00:00:00:00:00:00
Physical Layer FTP User Name	: Auto Negotiation
	1 anonynous
PRINTER CONFIGURATION Print Mode	: 1ST
Print Density	: 0
Power Control Page Protect	: High : On
Maximum Speed Control	: 3.0 ips
Error Page Recovery BM Cut Offset	: 0ff : +5
Paper Load	Auto
Rotary Cutter	: Manual
PRINT CONDITION ADJUSTMENT	
Label Top Margin	0
BM Cut Position	: 0
Perforation Cut Position	: 0
PRINTER TEST WODE	
Paper Type	: Document length
Form Length Paper Width	: 560 : 4 inch
SENSOR LEVEL(On, Off, T.H.)	
Black Mark Paper	
Paper End Sensor	: 2.9V, 0.1V, 1.5V
Black Wark Sensor	1.5V, 0.2V, 0.9V
White Paper	
Paper End Sensor	: 3.1V, 0.1V, 1.6V
TOF Sensor	: 3.0V, 0.1V, 1.5V : 2.9V, 0.1V, 1.5V
Label Paner	
Paper End Sensor	: 3.0V, 0.1V, 1.6V
Exit Sensor TOF Sensor	: 2.6V, 0.1V, 1.3V
Label Sensor	2.5V, 2.1V, 2.3V
Perforation Paper	
Paper End Sensor	: 3.1V, 0.1V, 1.6V
TOF Sensor	: 3.0V, 0.1V, 1.5V : 2.9V, 0.1V, 1.5V
TALLIES (USER PERMANENT)	
Print Line	: 49, 49
Hours On Flash Cycle	63 63
Cover Open	121, 121
Max Temperature Paper Jam	0, 0
CAM Notor Jan	: 1, 1
Knife Cut Cutter Jan	: 33, 33
SULLEI DEN	, 0, 0

3-2. Printer Status

Click on Printer Status page to display Error and Warning Status:

General Sharing F	Ports	Advanced	Device Setting
Printer Configuration Drive	r Setting	Printer Status	Version
Error Status Paper Jam Cutter Jam Thermal Head Temp Paper Empty Unable to load paper Black Mark Detection Cover Open Cam Motor Jam Cabel Error Cover Label Error EEPROM (Read/Write) Error Perforation Detection Cover len perforation		ning Status 24 V Anomaly Over Heated EEPROM (Checksur Non CG Sensor Adjustment F	n) Error ail Next

Click Next to display sensor and printer status

General Sharing F	Ports Advan	ced Device Setting
Printer Configuration Drive	r Setting Prin	nter Status Version
Sensor Status		
Paper End Sensor :	Not Paper End	C Paper End
BM(Black Mark) Sensor :	C Not Detecting BM	1 📀 Detecting BM
Cover Open Sensor :	Close	C Open
Cutter HP(Home Position) Sensor :	HP Positioned	C Not HP Positioned
Feed Switch :	Released	C Pressed
Paper Exit/Jam Sensor :	Not Jam	C Jam
TOF / Label Sensor :	Paper On	C Paper Off
CAM Motor HP Sensor :	C Home Positioned	Not Home Positioned
Label Sensor :	C Liner	C Label
2nd CAM Motor HP Sensor :	Home Positioned	C Not Home Positioned
Printer Status		
Printing Status :	Not Printing	C Printing
Cutting Status :	C Not Cutting	Cutting
Receiving Status :	Not Receiving	C Receiving
Busy Status :	Not Busy	C Busy
Printer Status :	Ready	C Pause
Warning Status :	No Warning	© Warning
Error Status :	C No Error	Error
		Previous

3-3. Device Setting

On the Printer Properties window, Click to show **Device Setting** page, Click **Edit** to

Printer Co	onfiguration	Driver	Setting	Printer Status	Version
General	Sharing	Ports	Advanced	Security	Device Setting
U	'aper Size ser Defined Siz	e: UserDo	efined Size 1	Edit	

Paper width and height can be changed. Change the height to a larger number if you want to print long page (e.g A4 size is 297mm)

NB: For Label printing, the width/height defined correspond to label width/length.

Paper Securitys			Margins	
Paper Type :	Label	-	Top Margin :	4 · (mm)
Paper Width :	Variable	-	Bottom Margin :	4 <u>·</u> (mm)
Paper Width	Ivanable		Right Margin :	4 📩 (mm)
Variable Width :	103	2 · (mm)	Left Margin ;	4 <u>·</u> (mm)
^p aper Length Variable Length :	16	5 - (mm)	Printable Width :	94.0 (mm)

Note) If you want to use perforation paper (with hole), please refer below setting.



3-4. Document Printing



Select 2ST_Label_Printer and click properties

Name:	🍏 2ST_Label_Printer		Properties
Status:	Idle		
Type:	2ST_Label_Printer		
Where:	USB002		Print to file
Comment:			
Page range		Copies	
 All 		Number of copies:	1
Current	page C Selection		1
C Dages			
· rayes:		───────────────────────────────────────	
Enter page	numbers and/or page ranges		1
separaced c	y commas. For example, 1,3,	5-12	
		Zoom	
Print what	Document	Dages per cheet:	France See
THIC WHICH	Procement	rages per sileec.	I page
S <u>–</u>	F	Carlota and Sa	a lu a tan
 Print:	All pages in range	Scale to paper size	🕫 INo Scalino 🛛 💌 I

Click Advance

Layout Documer	nt Setting		
Orientation Portrait C Landscape			
		C	Advanced

Select the User Defined Size that previously defined, and click OK.

🚔 2ST_Label_Printe 👍 Paper/Outpu	r Advanced Do t	cument Sett	tings	
Paper Size	User Define	ed Size 1 🔻		

Click **OK** to print the document:

Print		? ×
Printer <u>N</u> ame:	ST_Label_Printer	Properties
Status: Type: Where: Comment:	Idle 2ST_Label_Printer USB002	Print to file
Page range	page C Selection numbers and/or page ranges by commas. For example, 1,3,5–12	Copies Number of <u>c</u> opies: 1
Print <u>w</u> hat: P <u>ri</u> nt:	Document	Zoom Pages per sheet: 1 page 💌 Scale to paper size: No Scaling 💌
Options		OK Cancel

The following is the print result

Invoice date PO NO.		2009/7/8	ͲͲͲ				
		PO NO.		123456789		TTEC	
	Customer ID					Shipping date	
		2009/7/	2009/7/15				
	101	Shipping	Shipping time				
	1012 0400700				AM10:00 -	11:00	
				ltem name	Price	Qty	
1	923491	.4389	XXX		10,000	1	
2	841041	.9010	YYY		999	1	
3	C45650	1014	ZZZ		5,600	1	
4	340140	1948	AAA		21,200	1	
5	A13440	1905	BBB		87,005	1	
				Remark			
PO numbers							
Reasons to return/change							
%This is only a sample							

4. Un-installation the Printer Driver

In Printer and Faxes window, right click the "DB-EA4D" and select "Delete".



Right click at the Printer and Faxes window, select Server Properties:

🗞 Printers and Faxes			
File Edit View Favorites	Tools Help		1
Add Printer	Canada Caldana .	12	
Server Properties			
Set Up Faxing Faxes		~	- 🔁 Go
Create Shortcut	Name 🔺	Documents Status	
Delete Rename Properties	S TOSHIBA DB-EA4D	0 Ready	
Close			
See Also	*		
Other Places	8		
Scappers and Cameras	× <		>

In the Drivers page, select DB-EA4D and click remove

Prini	Serve	r Prope	rties		? 🔀
Forms	Ports	Drivers	Advanced		
-	KAIF	PAGI01			
Nar	ne ne	unvers.	Environment	Version	
TOS	HIBA DE	-EA4D	Intel	Windows 2000 o	NXP
	4 <u>d</u> d		emove R	eglace Pr	rop <u>e</u> rties
			Close	Cancel	Apply

Click Yes to confirm:

Print Se	erver Properties	
2	Deleting this printer driver will remove it from the system. Are you sure you want to delete TOSHIBA	DB-EA4D?
	<u>Y</u> es <u>N</u> o	

The printer is successfully removed then.