

User Manual

SATO CUPS Driver for Mac OS X

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Overview



The SATO Driver for Mac OS X system was developed to allow the users to print into the SATO printer.

This driver is based on CUPS printing system for Mac OS X. All the device communications are handled by CUPS (backend). The raster filter converts the CUPS raster graphic into SBPL which the printer can understand. For an instance, if the user prints a label, the raster filter converts the graphic into SBPL command which will be send to the printer together with the printer options.

1.1 Supported Models of SATO Printer

Currently only the following models of printers are supported by the current version of the driver:

Series Name	Models
CG2 Series	CG208 DT/TT
	CG212 DT/TT
CG4 Series	CG408 DT/TT
	CG412 DT/TT
GZ4e Series	GZ408e
	GZ412e
M84 Pro Series	M84 Pro 2
	M84 Pro 3
	M84 Pro 6
CL6e Series	CL608e
	CL612e
CL4e Series	CL408e
	CL412e
M84xxSe Series	M8485Se
	M8490Se
	M8459Se
	M8460Se
	M8465Se
CT4i Series	CT408i
	CT412i
LM4e Series	LM408e
	LM412e
S84 Series	S8408
	S8412
	S8424
M10e Series	M10e
GL4e Series	GL408e
	GL412e
MB2i Series	MB200i
MB4i Series	MB400i
	MB410i
TG3e Series	TG308e
	TG312e
CL4NX Series	CL4NX 203 dpi
	CL4NX 305 dpi
	CL4NX 609 dpi



S84ex 203 dpi
S84ex 305 dpi
S84ex 609 dpi
S86ex 203 dpi
S86ex 305 dpi
CL6NX 203 dpi
CL6NX 305 dpi
CL4NX-J 203 dpi
CL4NX-J 305 dpi
CL4NX-J 609 dpi
CL6NX-J 203 dpi
CL6NX-J 305 dpi
WS408 DT/TT
WS412 DT/TT
PW208NX
PW208mNX
FX3-LX DT305-Ln
CL4NX Plus 203 dpi
CL4NX Plus 305 dpi
CL4NX Plus 609 dpi

1.2 Printer Properties/Options

The driver supports printer's the following settings below. Please take note that the setting varies depending on the printer model. For more information, refer to the printer specifications.

Property	Description
Media Size	Sets the media size. Units in inches.
B&W	Allows user to select dither options for improved printing image quality.
Conversion	The choices are:
	- Dither (default) will be used for images.
	- Threshold (50%) will give sharp edges for text and bar codes.
	- Threshold (75%) will give sharp edges for text and bar codes, darker
	than 50%.
	 Threshold (25%) will give sharp edges for text and bar codes, lighter than 50%.
Sensor Type	Specifies the selection of the transparent sensor or the
	reflection sensor
Print Method	Sets the Print method/type such as Thermal Type and Direct Thermal
	Туре
Resolution	Sets the print density
Print Speed	Sets the print speed
Darkness Range	Sets the print darkness. The print density parameter can be specified in six options from "A" to "F".
Darkness Level	Sets the print darkness level. The print density level parameter can be
	specified in five options from "1" to "5"
Print Mode	Sets the operation mode such as Continuous, Tear Off, Cutter and
	Dispenser Operation
Cutter	Sets the cutter options. This is only applicable for printer units with
	cutter. Cutter Operation Mode should also be selected to make it work
Vertical Offset	Sets the start position coordinate. Specifies the vertical start position
	correction signal. Units in inches
Horizontal Offset	Sets the start position coordinate. Specifies the horizontal start position
	correction signal. Units in inches

System Requirements



The minimum system requirements for the SATO CUPS Driver for Mac OS X are:

- Mac with Mac OS X with CUPS 1.5 or higher
- At least one supported model of SATO printer that can connect to the Mac

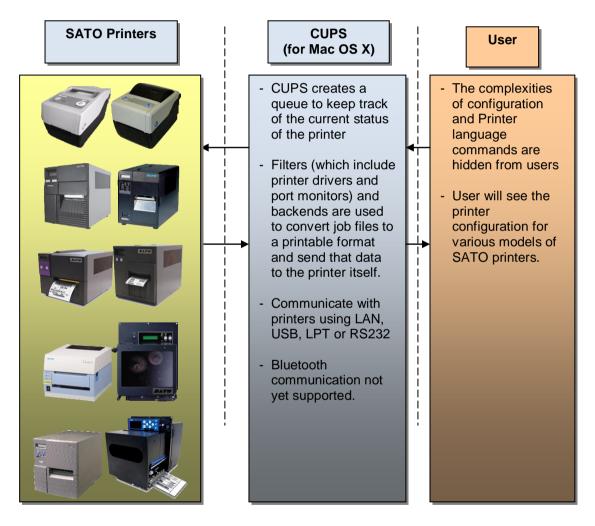


Figure 1 Overview

Setup

3

3.1 Installing the Driver

After obtaining the packages perform the following actions below.

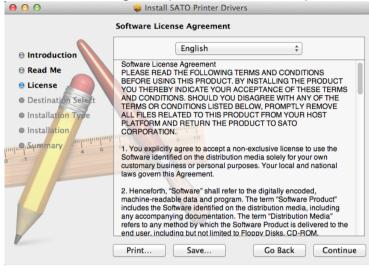
Note: The screenshots may look different depending on the Mac OS X Distribution you are using.

- 1) Locate the package file (.pkg) and run it.
- 2) The Installation wizard will appear on the screen. Click the **Continue** button to proceed to the next step.

000	🥪 Install SATO Printer Drivers
	Welcome to the SATO Printer Drivers Installer
Introduction Read Me License Destination Select Installation Installation A Summary	SATO Printer Drivers version 1.3.0 Copyright Copyright 2013 SATO Corporation <global.sysdev@satogbs.com> SATO Printer Drivers</global.sysdev@satogbs.com>
V	Go Back Continue

Introduction	INSTALLATION GUIDE
🛚 Read Me	
License	To install the driver using the .pkg file, perform the following actions below:
Destination Select	 Download the package from the website Click the package to run the installation wizard
Installation Type	3) Follow the instructions provided by Install Wizard to complete the installation
Installation	analandand
Summary	To uninstall the package, perform the following actions below:
A 5	 Open the Terminal Type in the command below. Look for the "satodriver.base"
1	sudo pkgutilpkgs [ENTER]
	3) Type in the command below.
	sudo pkgutilforget satodriver.base [ENTER]
	*Make sure the CUPS is installed in your system and configured properly. CUPS is a standards-based, open source printing system developed by Apple Inc. for Mac OS X and other UNIX-like operating
	system.





000		🥪 Install S/	ATO Printer Drivers		
		installing the so are license agree	ftware you must agr ement.	ee to the ter	ms
🖯 Int					
🖯 Rea	Click Agree to	o continue or click	k Disagree to cancel t	he installation	n 🔤
e Lic	and quit the I	nstaller.			S
De:	Read Lice	nse	Disagree	Agre	
Ins	-			TIUGAIU	1011
• Install	HILITIC	You explicitly a Software identifie customary busini laws govern this Z. Henceforth, "S machine-readab includes the Soft any accompanyii refers to any met	agree to accept a non-exc ed on the distribution med ess or personal purposes	ia solely for you . Your local and digitally encode term "Software tribution media, rm "Distribution e Product is del	ar own I national Product" including Media" ivered to the
/		Print	Save	Go Back	Continue

On the installation wizard screen, click Install to confirm the installation. 5) 000 🥪 Install SATO Printer Drivers

s	tandard Install on "Macintosh HD"
 Introduction Read Me License Destination Select Installation Type Installation 	This will take 618 KB of space on your computer. Click Install to perform a standard installation of this software on the disk "Macintosh HD".
	Change Install Location
/	Go Back Install

4) Click Continue and Agree to proceed to the next step.



00	😜 Install SATO Printer Drivers
	Standard Install on "Macintosh HD"
 Introduction Read Me License Destination Sele 	Installer is trying to install new software. Type your password to allow this.
Installation Type Installation Summary Summary	Name: Administrator Password: Cancel Install Software
2	Change Install Location Go Back Install

Note: In case you are required to enter username and password, please enter and click Install Software.

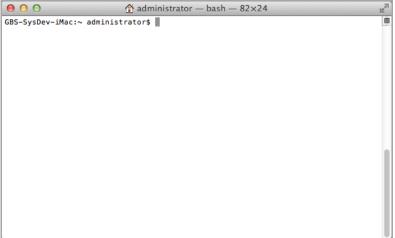
6) Click the **Close** button to close the dialog box

	Winstan Skrio Finiter Drivers
	The installation was completed successfully.
 Introduction Read Me License Destination Select Installation Type Installation Summary 	The installation was successful. The software was installed.
V	Go Back Close



3.2 Uninstalling the Driver

1) Launch the Terminal.



2) To delete the package you can type in:

sudo pkgutil --forget satodriver.base

3) To confirm if the package has been deleted you can type in the commands below. The **satodriver.base** won't appear on the list anymore.

sudo pkgutil --pkgs

Managing the SATO Printer



4.1 Overview

Printers can be managed using the **CUPS Web Interface**, **Print and Scan (System Preferences)** and by the use the **command-line program**. The easiest way to manage the printer is through Print and Scan and the CUPS web administration because it provides a step by step wizard screen for you to follow.

CUPS support devices such as Serial, USB, LAN and LPT.

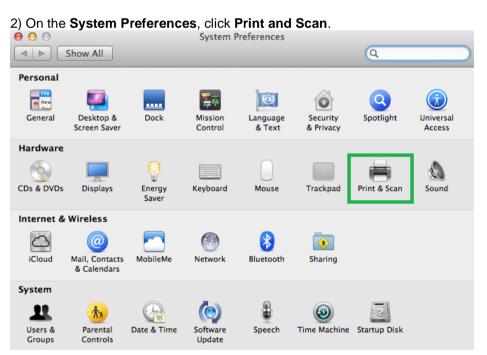
Note: The screenshots may look different depending on the Mac OS X Distribution you are using.

4.2 Managing Printers from the Print & Scan (System Preferences)

4.2.1 Adding a New Printer

To add a new printer from the **Print and Scan**, perform the following actions below:

1) Go to the System Preferences



3) The system will auto detect the printer if your printer is connected through USB.



	Print & Scan
Show All Printers SATO M-84Pro-2 Idle, Last Used	C SATO M-84Pro-2 Open Print Queue Options & Supplies Location: Kind: SATO M-84Pro-2 Status: Idle
+ -	Share this printer on the network Sharing Preferences
De	fault printer: Last Printer Used ‡ It paper size: A4 ‡ her changes.

4) In case the printer has not been automatically detected or added in the list by the system, you can click the + button below the printer icons



5) Select **Default** in the **Print & Scan** dialog box and select the printer in the list.



6) Please select the **Select Printer Software** in the **Print Using** dropdown. This will allow you to select the drivers for the printer.

	• • •	Add Printer		
rinters		idows	Search	11A2
54	Printer Name		▲ Kind	
	No. of the local division of the local divis	AD	Bright	
	The owner with the second		Bergene	
	SATO CL608e		USB	
l		e a Driver or Printer M	odel	5
-	Location Auto S	e a Driver or Printer M ielect	odel	25
· –	Location Print Using ✓ Generi	e a Driver or Printer M ielect	odel	
-	Location Print Using ✓ Generi	e a Driver or Printer M select ic PCL Printer Printer Software	odel	

7) Click **OK** after you have selected the correct printer model on the list.

rinters	Default Fa	000	Printer Softwa	are	_	11A2
) h-			Q SA	то	0	1142
S/	Printer N	SATO CG208				
	the second	SATO CG212			_	
	1000	SATO CG408				
		SATO CG412				
	SATO CL	SATO CL608e				
		SATO CL612e				
		SATO GZ408e				
		SATO GZ412e				
		SATO M-84Pro-2				
	r	SATO M-84Pro-3				<u>}</u>
	Loci	SATO M-84Pro-6				
_						
	Print L					
				Cancel	OK	
	-					



8) If you are adding a printer using the LAN interface, click IP instead of Default on the Add Printer dialog.

Default Fax	IP Windows	Search	
Printer Name		Kind	
Trinter Name	AND DECEMBER OF	- King	
The constant with	C (Transfer	Bergene	
No. of Concession, Name	- maintain	Sector 1	
SATO M-84Pro-	-2	USB	
			_
Name:	No Selection		
Location:	No Selection		
Print Using:			*

9) Enter the necessary information in the entry boxes

	۹ 🖪	
	P Windows Search	1
Protocol:	HP Jetdirect – Socket	\$
Address:		•
	Enter host name or IP address.	
Queue:	Leave blank for default queue.	*
	Leave blank for default queue.	
Name:	No Selection	
Location:	No Selection	
Print Using:		\$
		Add



10) Please select the **Select Printer Software** in the **Printer Using** dropdown. This will allow you to select the drivers for the printer.

00	Add Printer	
	۹ 🖪	
fault Fax I	P Windows	Search
Protocol:	HP Jetdirect – Socket	\$
Address:	10.25.7.123	•
	Valid and complete address.	
Queue:		•
	Leave blank for default queue.	
Name:	10.25.7.123	
Location	Auto Select	
Print Usinc √	Generic PostScript Printer	1
	Generic PCL Printer	
	Select Printer Software	
	Other	
	the second s	d

11) Click **OK** after you have selected the correct printer model on the list.

rinters	Default Fr	000	Printer Software	2		11A2
	Printer N		Q SATO)	0	
S/	hp color	SATO CG208				
	hp Laser	SATO CG212				
	hp Laser	SATO CG408				
	hp Laser, SATO CL	SATO CG412				
	SATUCE	SATO CL608e				
		SATO CL612e				
		SATO GZ408e				
		SATO GZ412e				
		SATO M-84Pro-2				
	r	SATO M-84Pro-3				25
	Loci	SATO M-84Pro-6				
	Print L					
			1	Cancel	OK	
_			2			

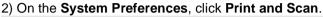
12) Finally, click the Add button



4.2.2 Removing the Printer

To remove an existing printer properties perform the following actions below:

1) Go to System Preferences





3) Select the printer on the list and click the - button below the printers.



4.3 Managing Printers from the CUPS Web Interface

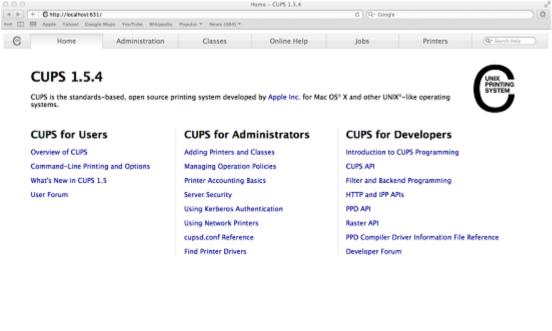
All Mac OS X system with CUPS installed has a **CUPS Web Interface** wherein users can manage printers in the system.

Note: You may receive a 'Web Interface is Disabled" warning when you access the CUPS Web Interface (<u>http://localhost:631/</u>"). This is a security feature Apple introduced from OS 10.7 onwards. You can turn on the local Mac OS X CUPS web interface by going into Terminal. Enter in the command *sudo cupsctl WebInterface=yes.*

4.3.1 Adding a New Printer

To add a new printer from the CUPS Web Interface, perform the following actions below:

1) Open a web browser (example: Safari) and type in "http://localhost:631/" in the address bar.



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2) On the **Home** page, click **Administration** on the top of the menu.



3) Clic	k Ado	d Printer	S.					
000		21					A	
		http://loca			ube Wikipedi	a Popular ▼	News (484) ▼	
00 MJ	A	ipple failor	a doogre	Maps Tourn	ube wikipeui	a ropulai *	News (404) *	
e		Home		Admii	nistration		Classes	
	Add Cla Add Jok	LSSES Class Mar	d New Prin age Classes		e Printers			
3) Sele		e printer		sh to add	and click	Continu	e Online Help	Jobs
6		rinter	Adm	inistration	Clas	262	Omine Help	1002
ſ		red Networ	k Printers	C Internet F Internet F LPD/LPR Internet F	n-Modem	col (ipps) r col (ipp)		

Alternatively, if you can't detect printer you can chose any of the "Other Network Printers" options. After that you will be asked to enter the Device URI of the printer.



CUPS.org	Home Administration Classes Help Jobs Printers
Add Pri	inter
dd Print	er
Connection:	socket
E	xamples:
	http://hostname:631/ipp/ http://hostname:631/ipp/port1
	<pre>ipp://hostname/ipp/ ipp://hostname/ipp/port1</pre>
	lpd://hostname/queue
	socket://hostname socket://hostname:9100
S	ee "Network Printers" for the correct URI to use with your printer.
	Continue

4) Printer information will be loaded in the page. Modify the information depending on your needs.

Add Printer

Name:	SAT0_M-84Pro-2
	(May contain any printable characters except "/", "#", and space)
Description:	SATO M-84Pro-2
	(Human-readable description such as "HP LaserJet with Duplexer")
Location:	
	(Human-readable location such as "Lab 1")
Connection:	usb://SATO/M-84Pro-2?location=fd130000
Sharing:	🗹 Share This Printer
	Continue

5) CUPS will detect the printer model that best describes the printer. Click **Add** to complete the process. If the selected model is incorrect, you can manually select the printer from the list.

Add Printer

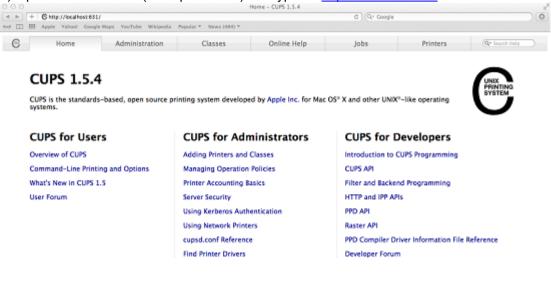
Name: SATO_N Description: SATO M Location:	
	ATO/M-84Pro-2?location=fd130000
Sharing: Share T	
Make: SATO	Select Another Make/Manufacturer
SATO CG2 SATO CC4 SATO CC4 SATO CL6 SATO CL6 SATO CC4 SATO C24 SATO C24	34Pro-2 (en, en) 208 (en, en) 112 (en, en) 412 (en, en) 412 (en, en) 036 (en, en) 126 (en, en) 126 (en, en) 126 (en, en) 127 (en, en)
Or Provide a PPD File: Choose F	ile no file selected
Add Prin	ter



4.3.2 Modify Printers

To modify an existing printer perform the following actions below:

1) Open a web browser (example: Safari) and type in "http://localhost:631/" in the address bar.



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2) On the Home page, click Administration on the top of the menu.

3) Click	Manage Printers.	
	+ C http://localhost:631/admin	
60 M	₩₩ Apple Yahoo! Google Maps YouTube Wikipedia Popular ▼ News ((484)
C	Home Administration Classes	s
	Printers Add Printer Find New Printers Manage Printers	
	Add Class Manage Classes	
	Manage Jobs	



4)	Select th	e printer	you wish to	o modify c	on the list
----	-----------	-----------	-------------	------------	-------------

Image: Value Valu	0				Pri	nters - CUPS 1.5	.4			
Home Administration Classes Online Help Jobs Printers Search in Printers: V Queue Name V Description Location Make and Model SATO_CL608e SATO CL608e SATO_CL608e SATO CL608e SATO CL608e SATO CC412e SATO_CL608e SATO CC412e SATO CC412e SATO_M-84Pro-2 SATO M-84Pro-2 SATO M-84Pro-2 On the Administration dropdown, select Modify Printer. SATO_M-84Pro-2 - CUPS 1.5 + + © http://localhost:631/printers/SATO_M-84Pro-2 SATO_M-84Pro-2 - CUPS 1.5 + + © http://localhost:631/printers/SATO_M-84Pro-2 SATO Classes Online Help SATO_M-84Pro-2 (Idle, Accepting Jobs, Not Shared) Minitemance Sector Modify Printer Description: Set Alawal Users o-2?location=fd130000 o-2?location=fd130000 Defaults: job-sheets=none, none media=oe_w400h400_4x4in sides=one-sided Jobs	▶ + Chttp://loo	calhost:631/pri	nters/?					C Q+ Goog	gle	
Search in Printers: Search in Printers: Showing 4 of 4 printers. Sato C4008e SATO C4008e SATO C4008e SATO C4028e SATO M-84Pro-2 SATO M-84Pro-2 SATO M-84Pro-2 SATO M-84Pro-2 Condendationstriation dropdown, select Modify Printers SATO M-84Pro-2 (Idle, Accepting Jobs, Not Shared) Description: Set performance	💭 🎹 Apple Yah	ioo! Google Ma	ps YouTube Wiki	ipedia Popular 🔻	News (487) 🔻					
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- 6) Select the printer you wish to modify and click Continue
- 7) Printer information will be loaded in the page. Modify the information depending on your needs.
- 8) CUPS will detect the printer model that best describes the printer. Click **Modify Printer** to complete the process.



4.3.3 Removing the Printer

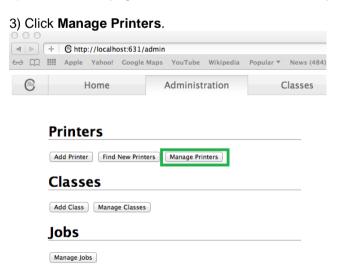
To remove an existing printer properties perform the following actions below:

1) Open a web browser (example: Safari) and type in "http://localhost:631/" in the address bar.



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2) On the Home page, click Administration on the top of the menu.



4) Select the printer you wish to modify on the list



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Show Completed Jobs Show All Jobs

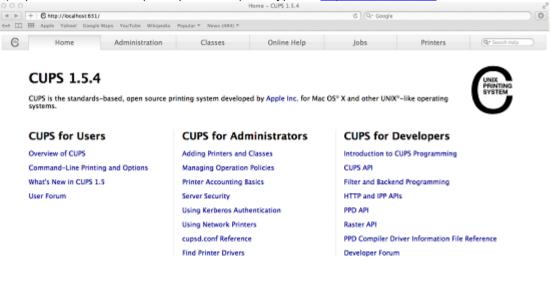
6) Click Delete Printer to confirm



4.3.4 Setting Default Printer Options

To set the default printing options perform the following actions below:

1) Open a web browser (example: Safari) and type in "http://localhost:631/" in the address bar.



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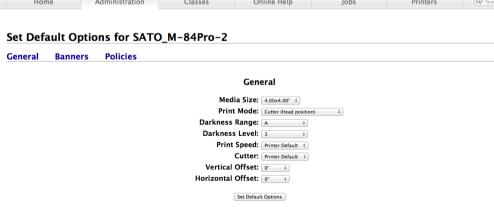
2) On the Home page, click Administration on the top of the menu.

3) Click	K Manage Printers.	
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4) Select the printer you wish to modify on the list

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4.4 Managing Printers from the Command Line

To find out more information on how to manage printers from the command-line please refer to the CUPS documentation in the address below: http://www.cups.org/documentation.php/doc-1.6/options.html

4.5 Troubleshooting

The best way to troubleshoot the problem is to check the log file. The procedures are as follows:

1) Switch on the "debug" mode in the LogLevel directive for your CUPS daemon.

2) Edit /etc/cups/cupsd.conf to have the line "LogLevel debug".

3) After changing the setting, restart CUPS daemon by typing "/etc/software/init.d/cups start" on the command-line.

4) Once the "LogLevel" has been modified, print a document and locate the log file generated. It can be found on */var/log/cups/error_log* directory of your machine.

5) Open the logs generated. This will give you the idea what caused the problem.

Note: Alternatively, you can also do it using the CUPS web interface.

Extensive contact information of worldwide SATO operations can be found on the Internet at **www.satoworldwide.com**

