

User Manual

SATO CUPS Driver for Linux

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Overview



The SATO Driver for Linux system was developed to allow the users to print into the SATO printer.

This driver is based on CUPS printing system for Linux. 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	CL4NX 203 dpi
	CL4NX 305 dpi
	CL4NX 609 dpi



S84ex/S86ex	S84ex 203 dpi S84ex 305 dpi S84ex 609 dpi S86ex 203 dpi
	S86ex 305 dpi
CL6NX	CL6NX 203 dpi
	CL6NX 305 dpi
CL4NX-J	CL4NX-J 203 dpi
	CL4NX-J 305 dpi
	CL4NX-J 609 dpi
CL6NX-J	CL6NX-J 203 dpi
	CL6NX-J 305 dpi
WS4	WS408 DT/TT
	WS412 DT/TT
PW208	PW208NX
	PW208mNX
FX3-LX	FX3-LX DT305-Ln

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.
Sensor Type	Specifies the selection of the transparent sensor or the
	reflection sensor
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%.
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 Driver are:

- IBM-compatible PC (CPU architecture: x86 and x64)
- Linux distributions such as RPM and DEB

DEB	Ubuntu 11.10 or higher
RPM	Fedora 16 or higher

- CUPS printing system for Linux (1.5 or higher)
- At least one supported model of SATO printer that can connect to the machine
- *For Bluetooth communication, it is necessary to install the "blue-cupz" package. This
 package contains a driver to let CUPS print to Bluetooth-connected printers. BlueZ is
 the official Linux Bluetooth protocol stack. Please check your Operating system
 documentation for compatibility.





Setup



3.1 Installing the Driver (x86/x64)

After obtaining the packages perform the following actions below.

Note: The screenshots may look different depending on the Linux Distribution you are using.

- 1) Login as root user. Otherwise, add the "sudo" or "su" command to obtain root permissions in front of each command you type in.
- 2) Launch the Terminal.

😳 🗇 😇 sato@ubuntu: -		
sato@ubuntu:~\$ 🗌		

Figure 2 Terminal screen

- Locate the package file. For example, if you saved the packages in the "Documents/SATO" folder you can type in: cd ~/Documents/SATO [ENTER]
- 4) To install the package, use the corresponding commands below:

For .deb files you can type in: dpkg -i [insert package name].deb [ENTER]

For .rpm files you can type in: rpm -i [insert package name].rpm [ENTER]

For .gz files perform the following actions below:1) Extract the package [insert package name].tar.gz into your local folder2) Run the satodriver.install

In the occasion that the driver is already installed, an error will occur. To overwrite it, specify the "--force" option dpkg –I --force [insert package name].deb [ENTER]

5) After a short delay the driver will be installed automatically into your system.



3.2 Uninstalling the Driver (x86/x64)

- 1) Login as root user. Otherwise, add the "sudo" or "su" command to obtain root permissions in front of each command you type in.
- 2) Launch the Terminal.



x86: dpkg -r satodriver x64: dpkg -r satodriver:amd64

3.3 Installing the Driver (ARMv7/PPC64LE)

- 1) Download the Driver and PostScript Printer Description (PPD) zip files from SATO Worldwide website (<u>http://www.satoworldwide.com/software/sato-cups-driver.aspx</u>)
- 2) To determine the correct driver to download, run the uname –a command. This command will return the processor architecture, in the case below its ARMv7.

```
ा root@c67e154538dd:/
root@c67e154538dd:/# uname -a
Linux c67e154538dd 4.9.93-linuxkit-aufs #1 SMP Wed Jun 6 16:55:56 UTC 2018 armv7l armv7l armv7l GNU/Linux
root@c67e154538dd:/#
```

- 3) Extract the file in your local folder. (ex. Documents)
- 4) Locate and copy the downloaded rastertosbpl file into the Cups filters folder. If there is an existing rastertosbpl file in the filter folder make sure to delete it first.

root@c67e154538dd:/
root@c67e154538dd:/# sudo cp rastertosbpl /usr/lib/cups/filter

5) Give the correct permission to the rastertosbpl file.

root@c67e154538dd:/
root@c67e154538dd:/# sudo chmod 655 /usr/lib/cups/filter/rastertosbpl

6) Since there are no installers for this package, you will need to use the PPD approach when adding the printer (refer to 4.2.1 or 4.3.1 Adding a New Printer section).

Managing the SATO Printer

4

4.1 Overview

Printers can be managed using the CUPS web interface, Printer Administration and by the use the command-line program. The easiest way to manage the printer is through the OS Printer Settings because it provides a step by step wizard screen for you to follow.

The CUPS supports devices such as Serial, USB, LAN and LPT.

Note: The screenshots may look different depending on the Linux Distribution you are using.

4.2 Managing Printers from the Printer Administration

4.2.1 Adding a New Printer

To add a new printer from the Printer Administration, perform the following actions below:

1) Locate the Printer Settings.



2) Click the Add > Printer option in the menu.





New Printer	
Select Device	
Devices	Description
LPT#1	A printer connected to the parallel port.
Serial Port #1 Serial Port #2 Enter URI Vetwork Printer Find Network Printer	
ThinPrint Printer for VMware Internet Printing Protocol (ipp ThinPrint Gateway Printer for LPD/LPR Host or Printer Windows Printer via SAMBA AppSocket/HP JetDirect	
•	Cancel Forward

3) Select the device from the selection and click the Forward button.

4) The system will start searching for existing drivers. If the printer information is found, it will automatically add the printer into the system.



5) In case system couldn't find the printer information, you will be asked to manual select the printer you wish to add.



You can chose any of the "Other Network Printers" options. After that you will be asked to enter the Device URI/Hots of the printer.

Select Device		
Devices Serial Port #1 Enter URI Network Printer Find Network Printer Windows Printer via SAMBA Internet Printing Protocol (https) Internet Printing Protocol (ipp14 Internet Printing Protocol (ipps) AppSocket/HP JetDirect LPD/LPR Host or Printer Internet Printing Protocol (ipp)	Location of the Host: Port number:	e network printer
	Connection Connections AppSocket/HP	JetDirect Cancel Forwa

For Bluetooth (pairing the device with the PC/Laptop first is necessary):

Devices	Location of the LPD ne	twork printer
Serial Port #1 Enter URI Network Printer Find Network Printer	Host: Queue:	Probe
Windows Printer via SAMBA Internet Printing Protocol (https) Internet Printing Protocol (ipp14 Internet Printing Protocol (ipps) AppSocket/HP JetDirect		
LPD/LPR Host or Printer		
Internet Printing Protocol (ipp)		
	- Connection	
	Connections	
	LPD/LPR queue 'lpd'	



For Serial:

Serial Port #1 Baud Rate 115200 Enter URI Parity Default Network Printer Data Bits Default Windows Printer via SAMBA Internet Printing Protocol (https) Flow Control Default Internet Printing Protocol (ipp 14 Internet Printing Protocol (ipps) AppSocket/HP JetDirect LPD/LPR Host or Printer Internet Printing Protocol (ipp) Connections Connections 	Devices	Settings of the	serial port	
Enter URI Network Printer Find Network Printer Windows Printer via SAMBA Internet Printing Protocol (https: Internet Printing Protocol (ipp14 Internet Printing Protocol (ipps) AppSocket/HP JetDirect LPD/LPR Host or Printer Internet Printing Protocol (ipp) * Connections	Serial Port #1	Baud Rate	115200	
Find Network Printer Data Bits Default Windows Printer via SAMBA Internet Printing Protocol (https: Internet Printing Protocol (ipp14) Internet Printing Protocol (ipp) Flow Control Default AppSocket/HP JetDirect LPD/LPR Host or Printer Internet Printing Protocol (ipp) Connection	Enter URI Network Printer	Parity	Default	+
Windows Printer via SAMBA Internet Printing Protocol (https; Internet Printing Protocol (ipp14 Internet Printing Protocol (ipps) AppSocket/HP JetDirect LPD/LPR Host or Printer Internet Printing Protocol (ipp) Connections	Find Network Printer	Data Bits	Default	+
 Connection Connections 	Internet Printing Protocol (https: Internet Printing Protocol (ipp14 Internet Printing Protocol (ipps) AppSocket/HP JetDirect LPD/LPR Host or Printer Internet Printing Protocol (ipp)	Flow Control	Default	*
Connections		* Connection		
		Connections		
Serial Port		Serial Port		

6) Select the "Select printer from the database" option from Choose Driver selection screen.

Choose Driver	
Select printer from database	
🔿 Provide PPD file	
Search for a printer driver to download	ad
he foomatic printer database contains rinter Description (PPD) files and also c non PostScript) printers. But in general r petter access to the specific features of	various manufacturer provided PostScript an generate PPD files for a large number of manufacturer provided PPD files provide the printer.
Makes	
Report.	
Minut?	
SATO	

7) Select "SATO" in the Makes/Manufacturer selection and click the Forward button.



Models	Drivers
CG208	SATO CG208 [en] (recommended)
CG212	
CG408	
CG412	

8) Select the specific printer model you wish to add.

9) Alternatively, you can select the printer PPD provided that you have the file or if you manually install the driver (ex. Using the ARMv7 and PPC64LE drivers)

10) Verify the information and click the Apply button.

😣 🖻 🕕 New Printer	
Describe Printer	
Printer Name Short name for this printer such as "laser	rjet"
SATO-CG208-2	
Description (optional) Human-readable description such as "HP	LaserJet with Duplexer"
SATO CG208	
Location (optional) Human-readable location such as "Lab 1"	e
ubuntu	
	Back Cancel Apply



11) Click the Print Test Page button to test the printer. Make sure your printer is online.



12) Check your test print.

4.2.2 Modifying the Printer Properties

To modify the printer properties perform the following actions below:



2) Select the printer you wish to modify in the screen.







4) Modify the printer properties and click the Apply button.

Settings	Settings			
Policies	Description:	SATO CG208		
Printer Options	Location:	ubuntu		
Job Options	Device URI:	parallel:/dev/lp0	Change	
INK/TONEF Levels	Make and Model:	SATO CG208	Change	
	Printer State:	Idle		
	Tests and Mainten	ance		
	Print Test Page			



4.2.3 Removing the Printer

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

1) Locate the Printer Settings.



2) Select the printer you wish to modify in the screen.

😣 🖻 💿 Printing - localhost		
🚽 Add 🔹 😋	Filter:	
Microsoft_XPS_Document_Writer:3		-
SATO-CG208		
SATO-CG208-2		
Connected to localhost		





4) Click the "Delete" button to confirm.

0	Really delete printer 'SATO-C	G208-2(file)'?
	Cancel	Delete

4.3 Managing Printers from the CUPS Web Interface

Most Linux system with CUPS installed has a **CUPS Web Interface** wherein users can manage printers in the system.

4.3.1 Adding a New Printer

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



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

C	Home	Administration	Classes
P	rinters		
E	Add Printer Find New P	rinters Manage Printers	
C	Classes		
G	Add Class Manage Clas	ses	
1	obs		



4) Select the printer you wish to add and click Continue

G	Home	Administration	Classes	Online Help	Jobs
	Add Printer				
	Local	Printers: _ Fax Printer () Bluetooth-M	fax) odem		
	Discovered Network	SATO M-84	ro-2 (SATO M-84Pr	ro-2)	
	Other Network	Printers: O Internet Prin O Internet Prin LPD/LPR Hos Internet Prin	ting Protocol (https) ting Protocol (ipps) t or Printer ting Protocol (ipp)	Constant of	-
		Vinternet Prin Windows pri AppSocket/H Conteue	ting Protocol (http) nter via spoolss IP JetDirect		

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

CUPS.org	Home Administration Classes Help Jobs Printers
Add Pi	rinter
Add Prin	ter
Connection:	socket
	Examples:
	http://hostname:631/ipp/
	http://hostname:631/ipp/port1
	ipp://hostname/ipp/
	<pre>ipp://hostname/ipp/port1</pre>
	lpd://hostname/queue
	socket://hostname
	socket://hostname:9100
	See "Network Printers" for the correct URI to use with your printer.
	Continue

Note: For bluetooth, you can use "bluetooth://<device mac address>" but make sure to pair the device with the PC/Laptop first.



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

B Home	2	Administration	Classes	0	
Add Prin	ter				
Name:	SATO_M-8	4Pro-2	_		
	(May cont	ain any printable characters ex	cept "/", "#", and space)		
Description:	SATO M-8	4Pro-2	The second second		
	(Human-readable description such as "HP LaserJet with Duplexer")				
Location:					
	(Human-r	eadable location such as "Lab	1")		
Connection:	usb://S	ATO/M-84Pro-2?location	n=fd130000		
Sharing:	Share	This Printer			
	Continue				

6) 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.dd

	Home	Administration	Classes	Online H
A	dd Printer			
	Nam	e: SATO_M-84Pro-2		
	Descriptio	n: SATO M-84Pro-2		
	Connectio	n: n:ush://SATO/M_84Pro_	22location-fd1300	00
	Sharin	a: Share This Printer	2:10cation=101500	00
	Mak	e: SATO Select Another Make/M	Manufacturer	
	Mode	L: SATO M-84Pro-2 (en, en) SATO CG208 (en, en) SATO CG208 (en, en) SATO CG412 (en, en) SATO CG412 (en, en) SATO CL612e (en, en) SATO CL612e (en, en) SATO GZ408e (en, en) SATO GZ408e (en, en) SATO M-84Pro-3 (en, en)		
Or	Provide a PPD Fil	e: Choose File no file selected		
	to the other states of the states of the	an encoserne no me selected		

7) Alternatively, you can select the printer PPD provided that you have the file or if you manually install the driver (ex. Using the ARMv7 and PPC64LE drivers)



4.3.2 Modify Printers

To modify an existing printer perform the following actions below:

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



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

6	Home	Administration	Classe
	Printers		
	Add Printer Find New Print	ers Manage Printers	
	Classes		
	Add Class Manage Classes		
	lobs		

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

C	Home	Administration	Classes	Online Help	Jobs	Printers	Q. Search Help
		Sea	arch in Printers: Q-		Search Clear		
			Sho	wing 4 of 4 printers.			
	Queue Name 🔻		Description		Location Make a	and Model	Status
SA	TO_CL608e		SATO CL608e		SATO C	L608e	Idle
SA	TO_GZ412e		SATO GZ412e		SATO G	Z412e	Idle
SA	TO_M-84Pro-2		SATO M-84Pro-2		SATO M	-84Pro-2	Idle



Hom	e Admir	nistration	Classes	Online Helr
SATO M	-84Pro-2 (1	dle Accer	nting John No	ot Shared)
Maintenance Description Location Driver Connection	Modify Printer Delete Printer Set Default Options Set As Server Default Set Allowed Users	rayscale, 2-s	ided printing) =fd130000	sides-one-sided
Jobs	.job-sileets=noile,	none media-o		31063-0116-31060
		- W.W.	detection second	1.12

- 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: Firefox) and type in "<u>http://localhost:631/</u>" in the address bar.

 Image: Borne Administration
 Classes

 Online Help
 Jobs

 Printers
 Gradiene Help



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



3) Click Manage Printers.

C	Home	Administration	Classes
	Printers		
	Add Printer Find New	Printers Manage Printers	
	Add Class Manage Cla	isses	
	lobs		

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

	0	unters/			G	Of Google			
m III -	Apple Yahoo! Google I	Maps YouTube Wikipedia	Popular T News (487) T						
9	Home	Administration	Classes	Online Help	Job	s	Printers	Q* Search H	
		S	earch in Printers: Q-		Search	Clear			
			Sho	owing 4 of 4 printers.					
•	Queue Name 🔻		Description		Location	Make and !	Model	Statu	
SAT	SATO_CL608e SATO CL608e						SATO CL608e Idle		
SAT	O_GZ412e		SATO GZ412e			SATO GZ41	2e	Idle	
SAT	O_M-84Pro-2		SATO M-84Pro-2			SATO M-84	Pro-2	Idle	
3	Home	Administra	tion Cla	usses C	Online Help				
3	Home	Administra	tion Cla	obs. Not Sh	Online Help				
B S	Home	Administra	tion Cla	obs, Not Sha	Online Help ared)				
S	Home	Administra 1Pro-2 (Idle, dministration odify printer	tion Cla	obs, Not Sha	Online Help ared)				
S. D	Home	Administra Administration Inter In	Accepting J	obs, Not Sha	Online Help ared)				
S S D	Home ATO_M-84 Aaintenance 2 4 A escription: 5 4 Location: 5	Administra Administration Indify Printer elete Printer et Default Options et As Server Default	Accepting J	obs, Not Sha	Online Help ared)				
S. D	Home ATO_M-84 Aaintenance 2 4 A escription: 5 Location: 5 Driver: 5 5 Sconnection: 5	Administra APro-2 (Idle, administration Idly Printer elete Printer et Default Options et As Server Default et Allowed Users 0-7	Accepting J	isses (obs, Not Sha ting) 00	Online Help ared)				
S S D C	Home ATO_M-84 Aaintenance Aaintenance Connection: Defaults: job-	Administra APro-2 (Idle, dministration lodify Printer et As Server Default et Allowed Users sheets=none, none	Accepting J Accepting J scale, 2-sided prim 2?location=fd1300 e media=oe_w400h	ting) 00 400_4x4in sides=0	Donline Help ared)				
S S D C	Home	Administra APro-2 (Idle, Administration bolify Printer elete Printer et Default Options et AS Server Default et Allowed Users sheets=none, none	Accepting J Accepting J scale, 2-sided print 2?location=fd1300 e media=oe_w400h	ting) 00 400_4x4in sides=0	Donline Help ared)				
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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: Firefox) and type in "http://localhost:631/" in the address bar.



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

3) Click Manage Printers.

P	rinte	rs		
A	dd Printer	Find New Printers	Manage Printers	
C	lasse	s		
A	dd Class	Manage Classes		
Je	obs			

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

C	Home	Administration	Classes	Online Help	Jobs	Printers	Q. Search Help
		Sea	arch in Printers: @-		Search Clear		
			Sho	wing 4 of 4 printers.			
	▼ Queue Name ▼		Description		Location Make and	Model	Status
	SATO_CL608e		SATO CL608e		SATO CL6	08e	Idle
	SATO_GZ412e		SATO GZ412e		SATO GZ4	-12e	Idle
	SATO_M-84Pro-2		SATO M-84Pro-2		SATO M-8	4Pro-2	Idle



SA	ATO_M-84	Pro-2 (Idl	e, Accept	ing Jobs, N	ot Shared)	
Ma	aintenance 🕴 🗸 Ac	Iministration				
De	escription: 5	odify Printer				
	Location: Se	t Default Options t As server Default	avscale, 2-sid	ed printing)		
C	onnection: L	t Allowed Users	-2?location=	fd130000		
	Defaults: job-s	sheets=none, no	ne media=oe	_w400h400_4x4in	sides=one-sided	
Jo	bs					
			Search in	SATO_M-84Pro-	2: Q+	
Sh	ow Completed Jobs	Show All Jobs				

Set Defa	ault Optic	ons for SATO	_M-84Pro-2				
General	Banners	Policies					
			G	eneral			
			Media Siz	2e: 4.00x4.00" ‡			
			Print Mod	cutter (Head positi	on) ‡		
			Darkness Rang	ge: A :			
			Darkness Lev	el: 3 ÷			
			Print Spee	ed: Printer Default ÷	(I)		
			Cutte	er: Printer Default +).		
			Vertical Offs	et: 0" :			
			Horizontal Offe	at' o' +			

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 (ex. Raw SBPL, Image, and, PDF printing) 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.



