



SAM4S Receipt Printer

CUPS Driver

Ubuntu Installation Manual

Contents

Table of Contents

Table of Contents	2
1. Introduction.....	3
2. Overview.....	3
3. Prerequisite	3
4. Extracting files using GUI.....	4
5. Installation Wizard	4
6. Adding USB Printer.....	6
7. Adding Serial Printer	8
8. Adding Parallel Printer	10
9. Adding Ethernet Printer	12
10. Printers & Printer Options	14
11. Custom Printer Options	17
11.1 Setting Custom Paper Size	19
11.2 Emulation Commands	19
12. Uninstalling Printer	20

1. Introduction

The purpose of this document is to describe how to install a SAM4S Receipt printer driver for Linux, in detail. The document provides information on installation of SAM4S Receipt Printer driver on Ubuntu 12.04 LTS, 12.10, 13.10 (32 bit and 64 bit) operating systems.

2. Overview

SAM4S Receipt printer driver for Linux can support thermal receipt printing with various paper sizes along with Cash drawer functionality.

3. Prerequisite

SAM4S Receipt printer driver with Linux support and has been tested on the following distributions of Linux:

- Ubuntu 12.04 LTS 32 bit

- Ubuntu 12.04 LTS 64 bit

- Ubuntu 12.10 32 bit

- Ubuntu 12.10 64 bit

- Ubuntu 13.10 32 bit

- Ubuntu 13.10 64 bit

The operating system should have the gksu package to run SAM4S CUPS printer driver.

Follow the below steps to install this package

- Open the terminal

- Type **sudo apt-get update**

- Then type **sudo apt-get install gksu**

It will automatically install the gksu package.

4. Extracting files using GUI

To install this SAM4S Receipt Printer Driver version x.x.x.x for Linux by means of GUI, the user needs to be a root user.

Click on the ***SAM4S_Receipt_Printer_Driver-x.x.x.x-Linux-x86-Install.tar.gz*** or ***SAM4S_Receipt_Printer_Driver-x.x.x.x-Linux-x64-Install.tar.gz*** archive file to untar 32 bit or 64 bit driver installer respectively to a desired directory location.

[In the fire fox web browser, the setup will be downloaded inside the download folder. Right click → Open Containing folder → Right click → Open with Archive Manager → Right click Extract or click Extract → select the desired location → Click Extract]

Switch to the directory location where the setup has been un tared and double click on the binary to install the driver.

5. Installation Wizard

The installation can be performed only in Administrator mode. Type the Administrator password [sudo user] when prompted.

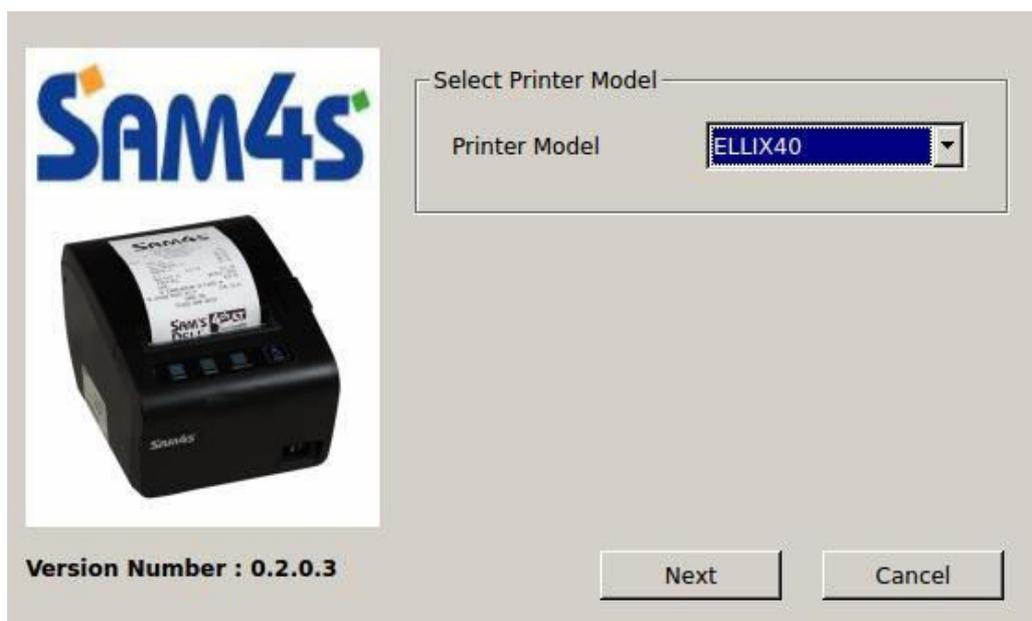
Double click on the un-tared binary to initiate the installation of the driver.

To install the driver, click **Yes** in the confirmation screen to launch ***SAM4S Receipt Printer Driver Setup*** wizard, click **No** to cancel the installation.

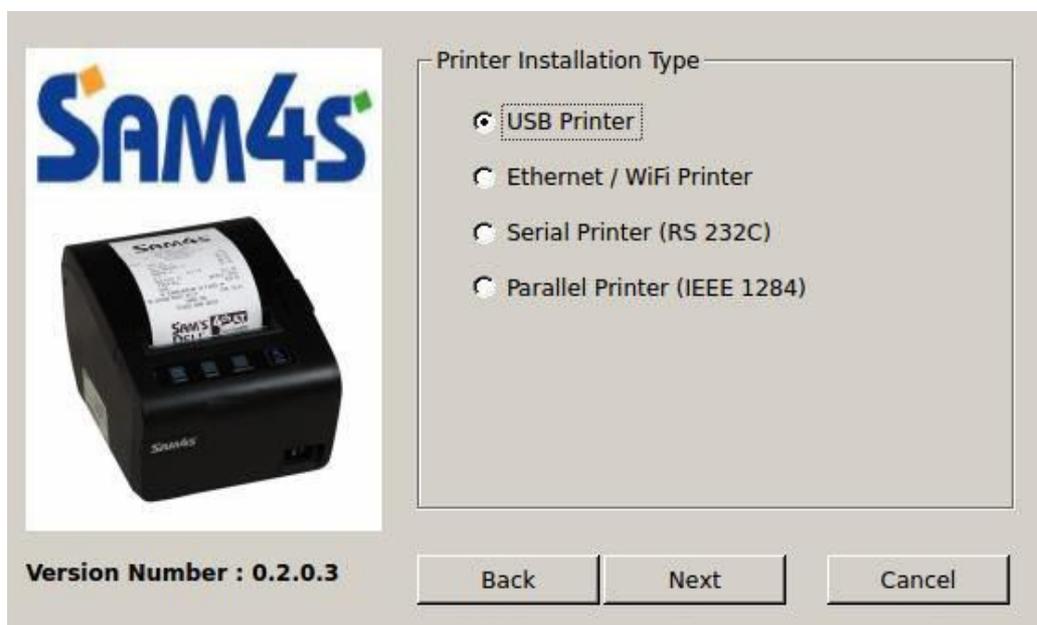


Select the printer model from the drop down as shown in the following screen to install the CUPS printer driver for the model selected.

Installation Manual for SAM4S Receipt Printer CUPS Driver



Click **Next** button on the above screen to proceed to next screen as shown below or, Click on **Cancel** to terminate installation.



Select the printer interface type and click the Next button to add the printer driver for the selected interface type. It will copy all required driver file into appropriate directory.

Now all files will be copied in to the directory

Installation Manual for SAM4S Receipt Printer CUPS Driver

1. `/usr/lib/cups/filter/RasterToSAM4S`
2. `/usr/local/SAM4S`

After copying is complete, the finish page will show the message **Successfully installed SAM4S Receipt Printer Driver**.



Click on **Finish** button in the setup wizard Finish page to complete the installation and exit the Installer.

6. Adding USB Printer

Following are the steps to add the USB Printer.

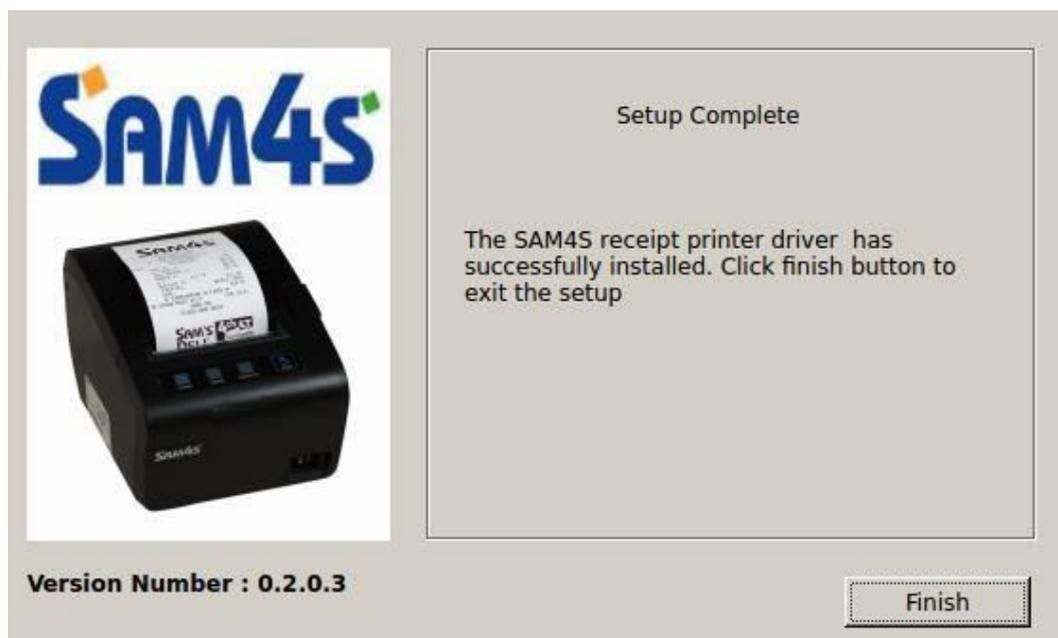
Double click the un-tared setup file to launch **SAM4S Receipt Printer Driver Setup** wizard, then select the appropriate printer model from the drop down to install the CUPS printer driver for the model selected and click **Next** button to precede to the following screen.



Select the **USB Printer** radio button and click **Next** button. The following confirmation screen will appear, click **OK** button to complete the installation or click **Cancel** button to terminate the installation.



On successful installation the following **Setup complete** screen will appear.



Click the **Finish** button on the **Setup Complete** screen to complete the setup.

Then turn-off and turn-on the USB Printer. The SAM4S USB Receipt printer will be added automatically.

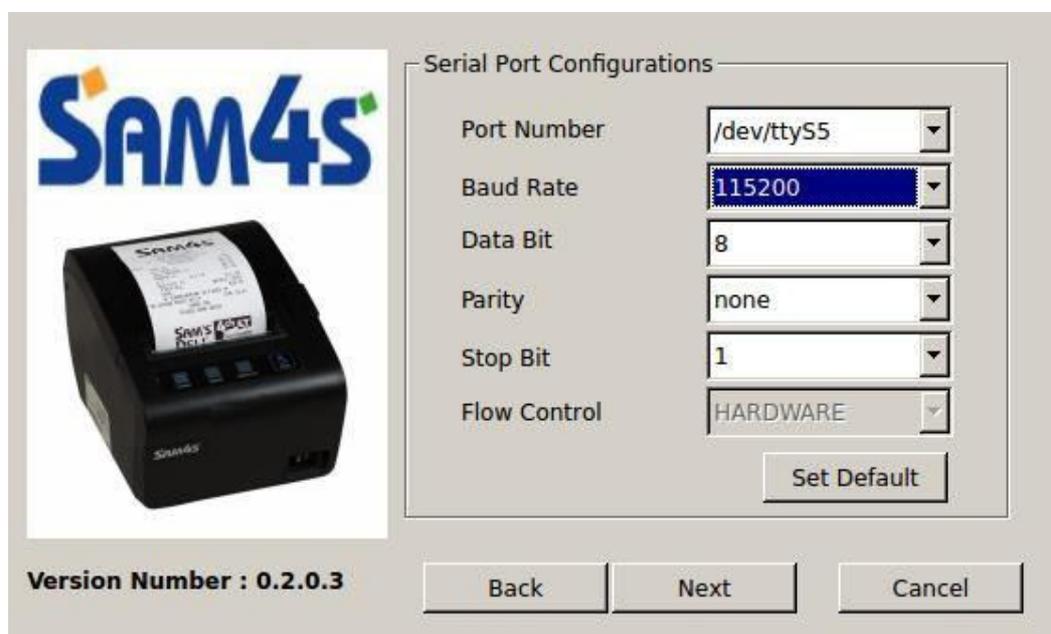
7. Adding Serial Printer

Following are the steps to add serial printer

Double click the un-tared setup file to launch **SAM4S Receipt Printer Driver Setup** wizard, then select the appropriate printer model from the drop down to install the CUPS printer driver for the model selected and click **Next** button to precede to the following screen.



Select the **Serial Printer** radio button and click **Next** button. The following confirmation screen will appear



Select the required serial port configurations to add the printer and then click the **Next** button to install and add SAM4S Serial Receipt printer. On successful installation the following **Setup complete** screen will appear.



Click the **Finish** button on the **Setup Complete** screen to complete the setup.

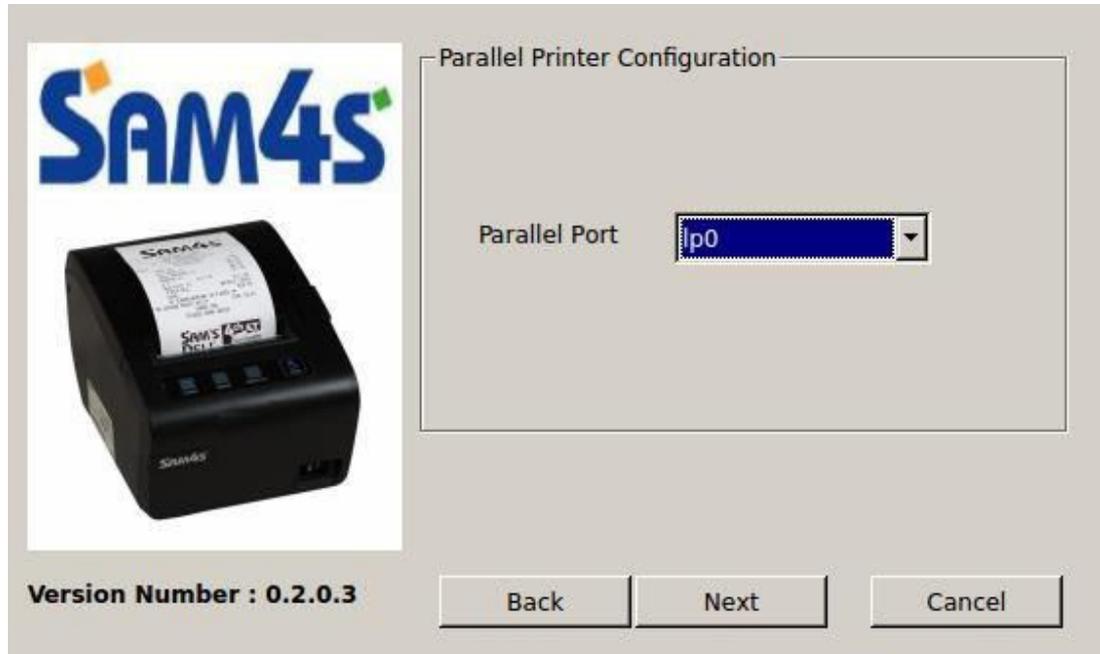
8. Adding Parallel Printer

Following are the steps to add parallel printer

Double click the un-tared setup file to launch **SAM4S Receipt Printer Driver Setup** wizard, then select the appropriate printer model from the drop down to install the CUPS printer driver for the model selected and click **Next** button to precede to the following screen.



Select the **Parallel Printer** radio button and click **Next** button. The following screen will appear



Select the parallel port to add the printer and then click the **Next** button to install and add SAM4S Parallel Receipt printer. On successful installation the following **Setup complete** screen will appear.



Click the **Finish** button on the **Setup Complete** screen to complete the setup.

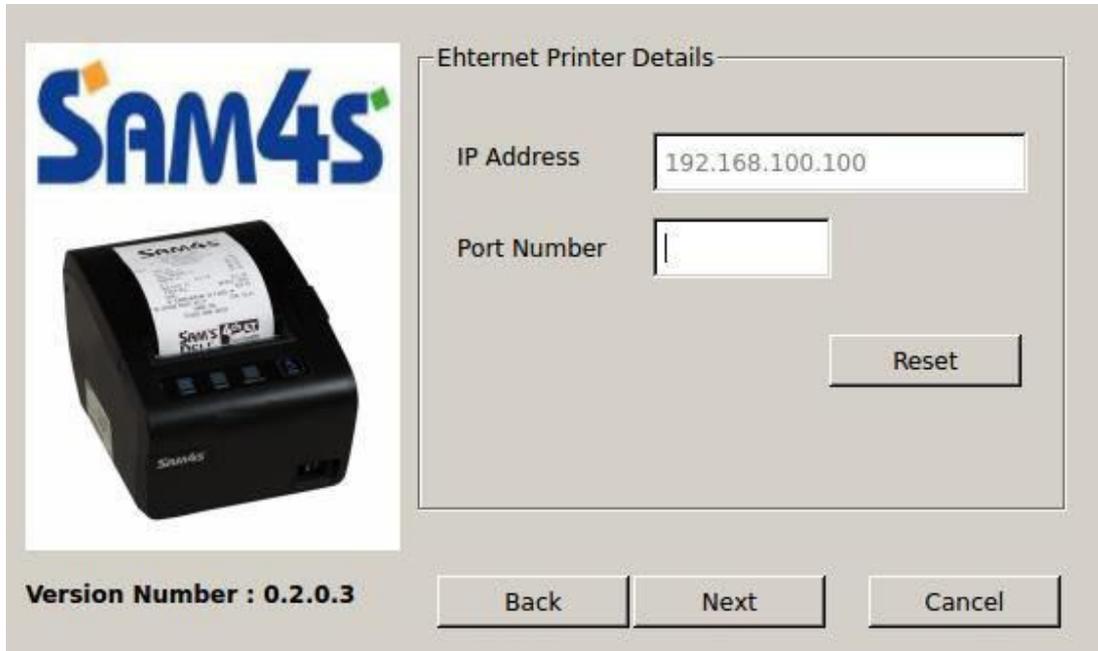
9. Adding Ethernet Printer

Following are the steps to add Ethernet printer

Double click the un-tared setup file to launch **SAM4S Receipt Printer Driver Setup** wizard, then select the appropriate printer model from the drop down to install the CUPS printer driver for the model selected and click **Next** button to precede to the following screen.

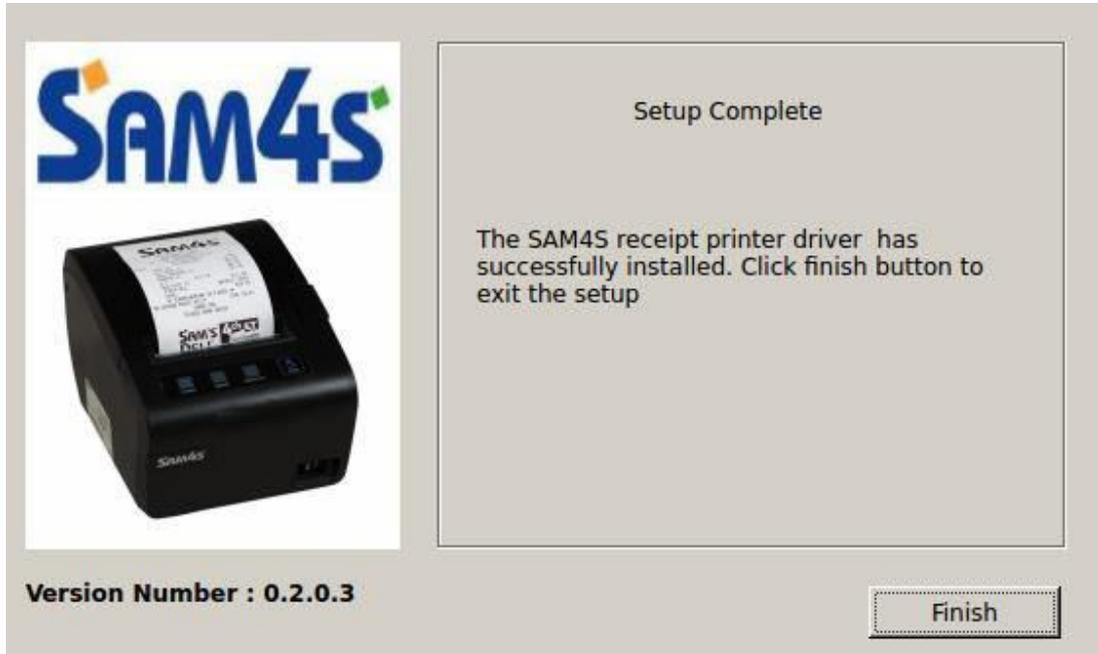


Select the **Ethernet Printer** radio button and click **Next** button. The following screen will appear



Enter the valid SAM4S Ethernet Receipt printer IP address and port number to add the printer and then click the **Next** button to install and add SAM4S Ethernet

Receipt printer. On successful installation the following **Setup complete** screen will appear.

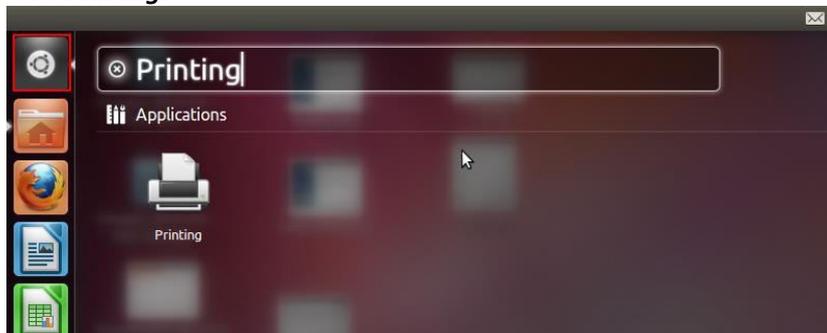


Click the **Finish** button on the **Setup Complete** screen to complete the setup.

10. Printers & Printer Options

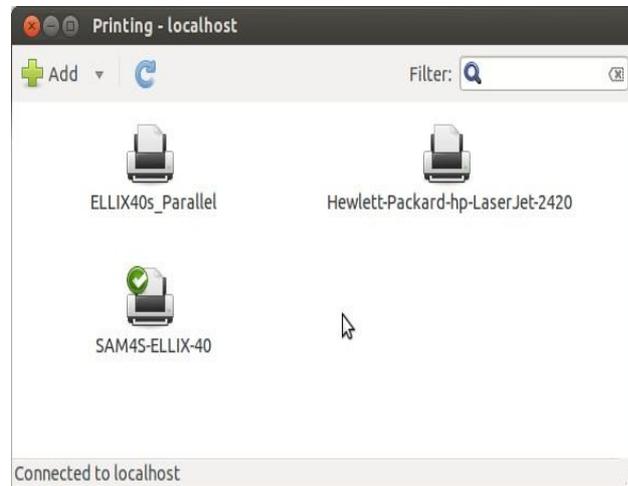
Following are the steps to view installed printers and make changes to printer options

Click on the **Ubuntu Wubi** [Marked as red in the image below] icon which is on the top right of the menu and type in **Printing** and click on the **Printing** icon on the dashboard to launch the **CUPS Printing**.

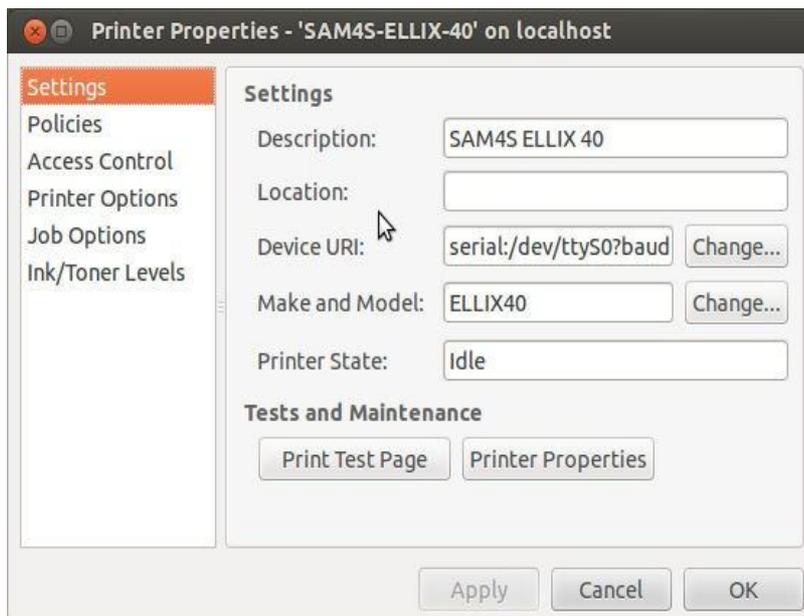


Installation Manual for SAM4S Receipt Printer CUPS Driver

The **Printing** will list all the available **printers**.

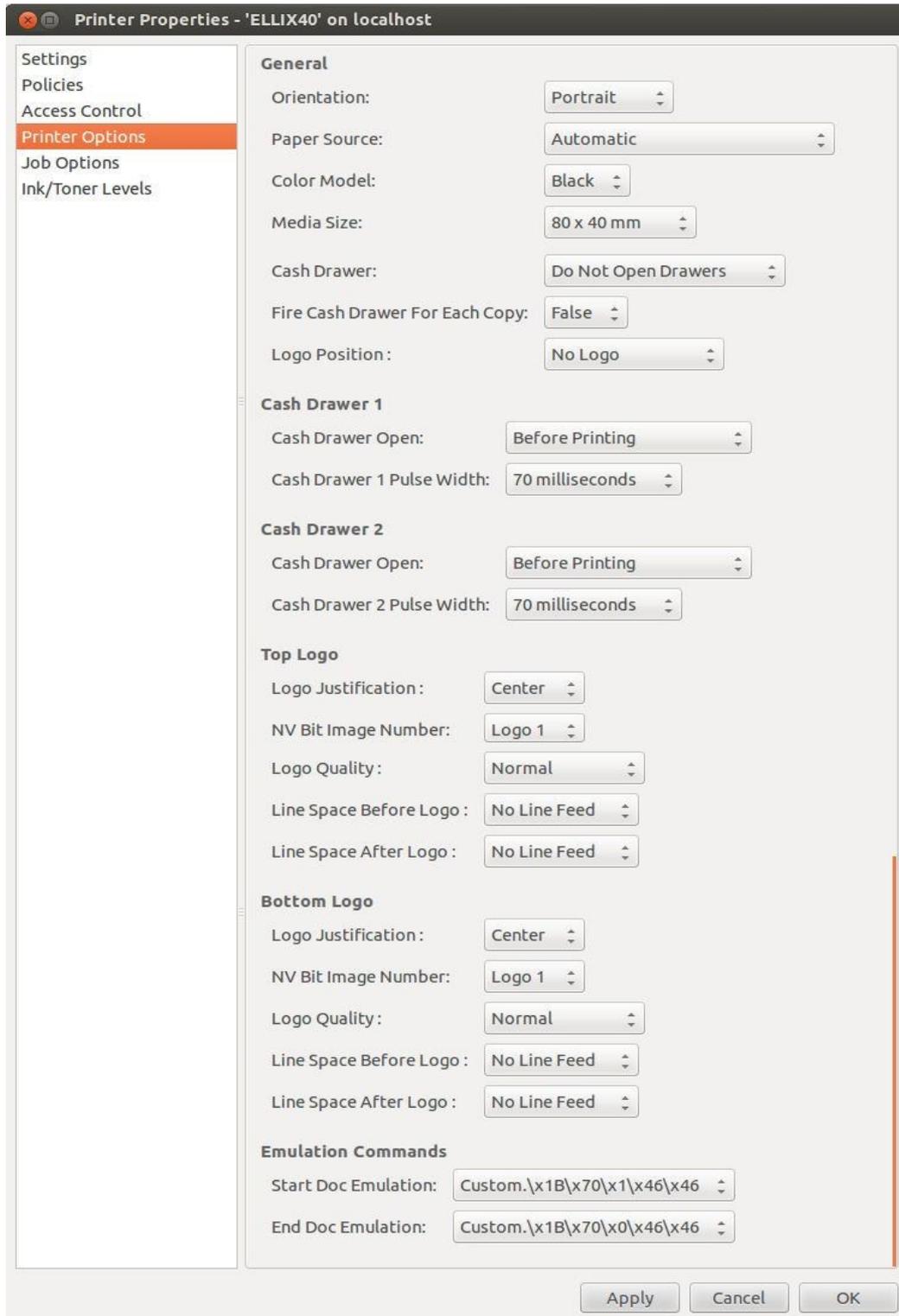


Select and right click on the printer, a menu pops up and select **Printer Properties** from the menu to open the printer properties page of the corresponding printer.



Select the **Printer Options** from the left side menu to view and change various printer options corresponding to the printer

Installation Manual for SAM4S Receipt Printer CUPS Driver

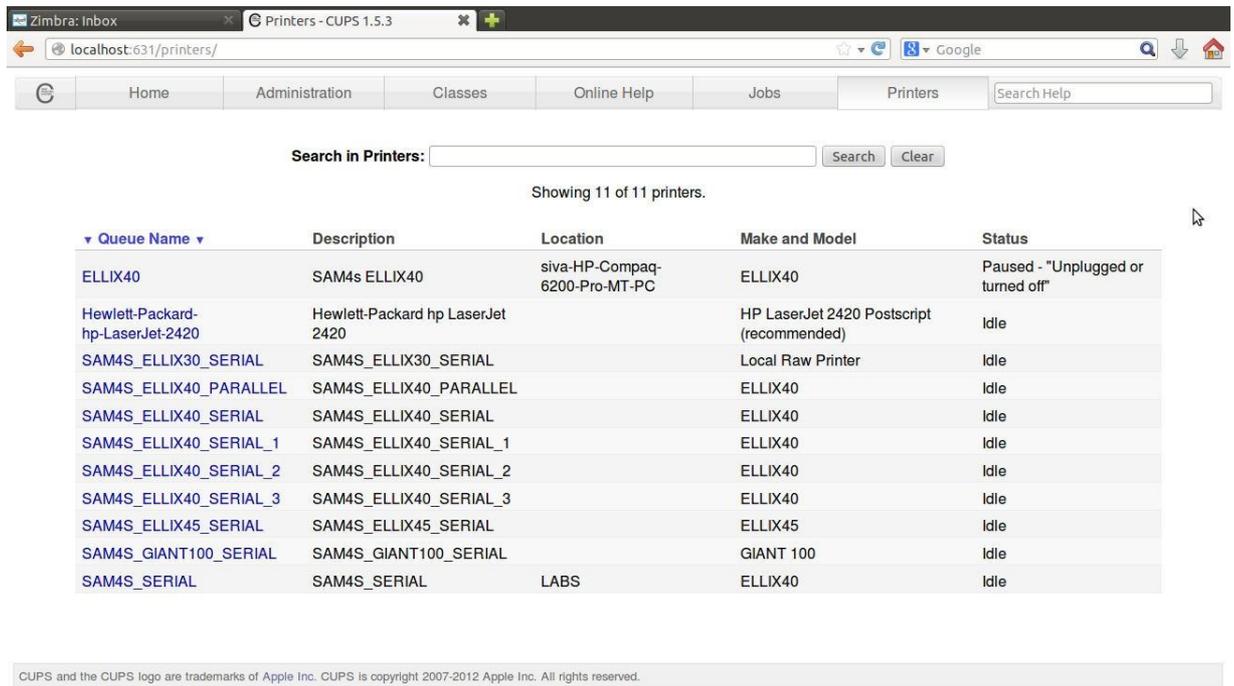


Make necessary changes on the **Printer Options** page and Press **Apply** to save the changes or Press **OK** to save and close the Printer Properties window or Press **Cancel** to discard the changes.

11. Custom Printer Options

All custom options can be changed only from the CUPA web admin page and not from printer property page; following are the steps to reach the CUPS web admin page.

Launch the web browser and go to the CUPS web admin page address (<http://localhost:631>) and then click the **Print** tab in the CUPS web admin page as shown in the following screen



Select the SAM4S Printer from the list, the following screen will appear.

Installation Manual for SAM4S Receipt Printer CUPS Driver

The screenshot shows a web browser window with the URL `localhost:631/printers/ELLIX40`. The page title is "ELLIX40 (Paused, Accepting Jobs, Not Shared, Server Default)". The navigation menu includes Home, Administration, Classes, Online Help, Jobs, and Printers. The printer status is "Paused, Accepting Jobs, Not Shared, Server Default".

ELLIX40 (Paused, Accepting Jobs, Not Shared, Server Default)

Maintenance Administration

Description: SAM4s ELLIX40
Location: siva-HP-Compaq-6200-Pro-MT-PC
Driver: ELLIX40 (grayscale, 2-sided printing)
Connection: usb://SAM4s/ELLIX40?serial=0000000000022
Defaults: job-sheets=none, none media=custom_80.01x40.01mm_80.01x40.01mm sides=one-sided

Jobs

Search in ELLIX40: Search Clear

Show Completed Jobs Show All Jobs

No jobs.

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From this above screen, select the **Set Default Options** from **the Administration** drop box. The following screen will appear.

The screenshot shows the "Set Default Options for ELLIX40" page. The navigation menu includes General, Cash Drawer 1, Cash Drawer 2, Top Logo, Bottom Logo, Emulation Commands, Banners, and Policies. The "General" tab is selected.

Set Default Options for ELLIX40

General Cash Drawer 1 Cash Drawer 2 Top Logo Bottom Logo Emulation Commands Banners Policies

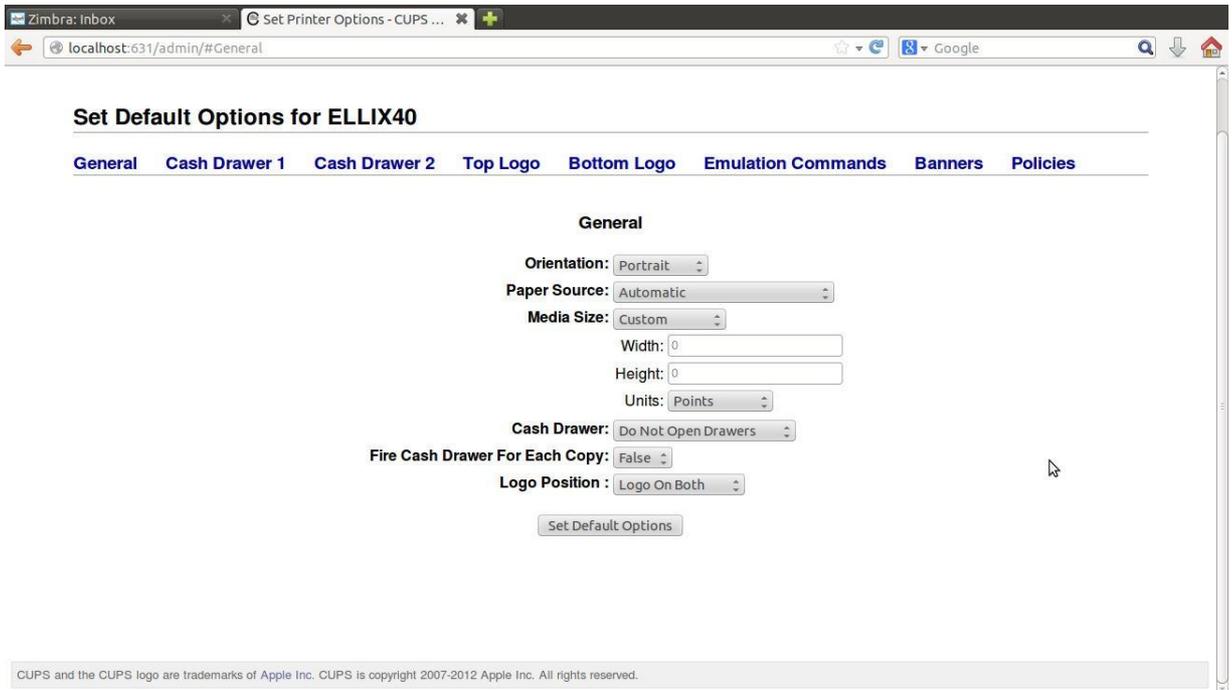
General

Orientation: Portrait
Paper Source: Automatic
Media Size: 80 x 40 mm
Cash Drawer: Do Not Open Drawers
Fire Cash Drawer For Each Copy: False
Logo Position: Logo On Both

Set Default Options

11.1 Setting Custom Paper Size

Select the **General tab**, then click the **Media size** drop box and select the **custom** option. The following screen will appear.



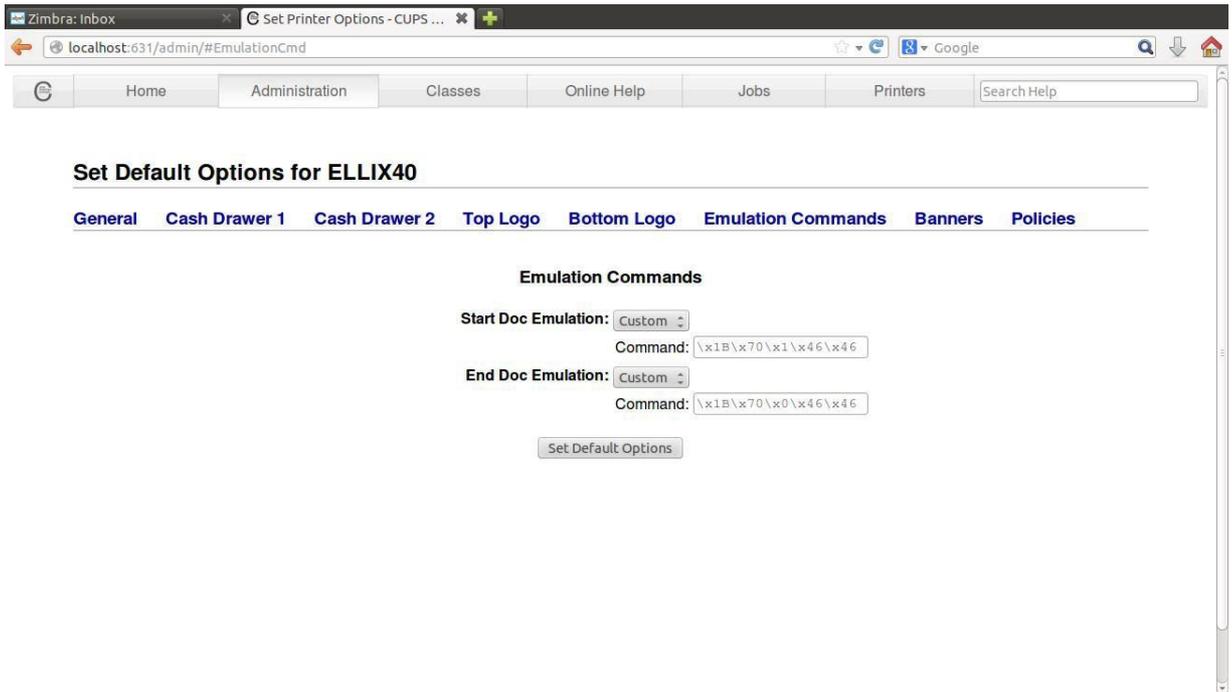
Enter the valid **paper size** corresponding to the units selected, then click **the Set Default options** button to save the custom paper size.

11.2 Emulation Commands

Emulation command options are only available from the web admin page (<http://localhost:631>).

Select the printer from the web admin page and click the **Emulation commands** tab. The following screen will appear.

Installation Manual for SAM4S Receipt Printer CUPS Driver

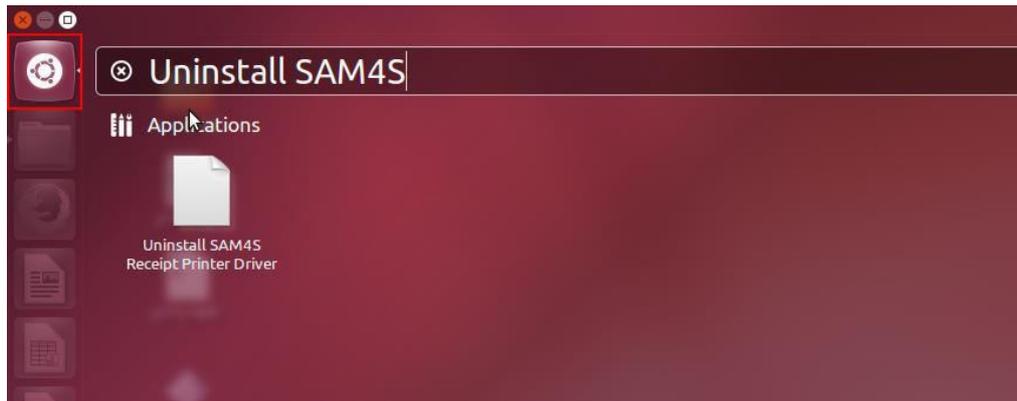


Enter the valid **printer commands**, and then click **the Set Default options** button to save **Start Doc and End Doc emulation** commands.

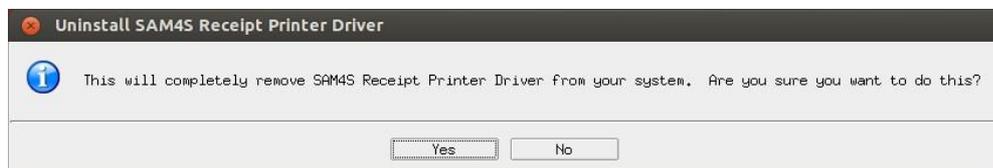
12. Uninstalling Printer

Following are the steps to uninstall SAM4S Receipt printer driver from the Linux system

Click on the **Ubuntu Wubi** [Marked as red in the image below] icon which is on the top right of the menu and type in **Uninstall SAM4S** and click **Uninstall SAM4S Receipt Printer Drive** Lik fro the dashboard.



Type the root password when root access windows shown to open the Uninstall wizard.



Uninstall confirmation message will be shown as above, click **Yes** to uninstall the driver or click **No** to terminate the uninstallation.

All installed **SAM4S Printer** will be removed from the system automatically.