

Neutral Ticket Printer Linux Driver Documentation

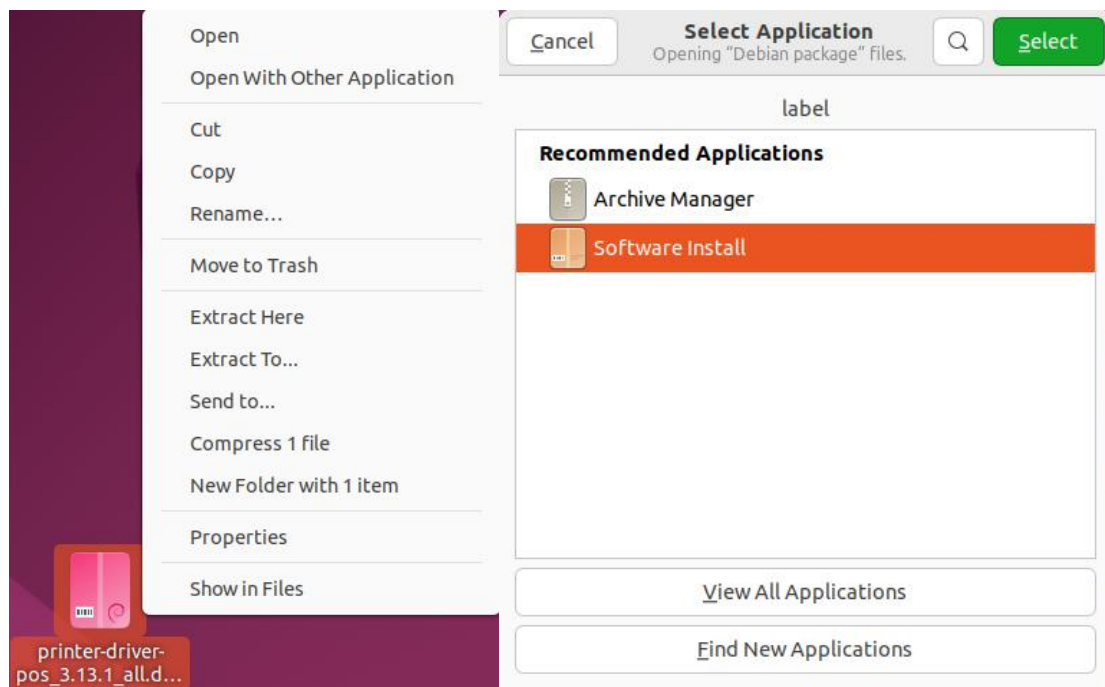
1. Introduction

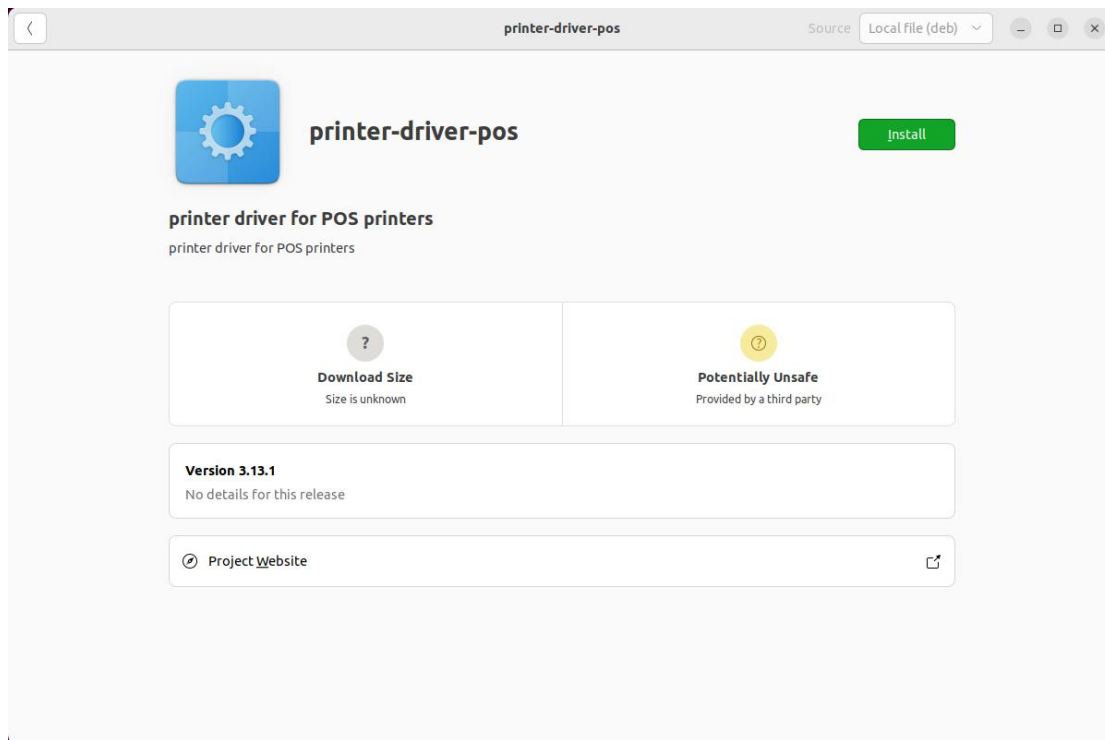
printer-driver-pos.deb is a Linux system driver installation package that supports Debian and its derivative Linux systems such as Ubuntu, Kylin, Tongxin, etc. It can be used with Neutral 58 Series and 80 Series bill printers. This document provides instructions for driver installation, uninstallation, printer driver selection, and printer parameter introduction.

2. Install Bill Driver

Linux graphical interface installation method:

Taking Ubuntu 22.04 version as an example, select the printer-driver-pos.deb installation package for the Linux operating system. Right-click the mouse and choose "Open with Other Application", then select "Software Install". In the printer-driver-pos window, click the green "Install" button. The installation is complete when the green install button turns into a red recycle bin icon.





Terminal command line installation method:

Open the terminal in the directory where the printer-driver-pos.deb installation package is located and enter the following commands:

1. Enter "ls" and press Enter to view the name of the installation package in the current directory.
2. Enter "sudo dpkg-i" followed by the package name and press Enter. For example: "sudo dpkg-i printer-driver-pos_3.13.1_all. deb" and press Enter. The message "Driver success installed!" indicates the completion of the installation step.
3. Enter "sudo dpkg-l | grep printer-driver-pos" and press Enter to search for the Neutral driver. If "printer driver for POS printers" is displayed, it indicates a successful driver installation.

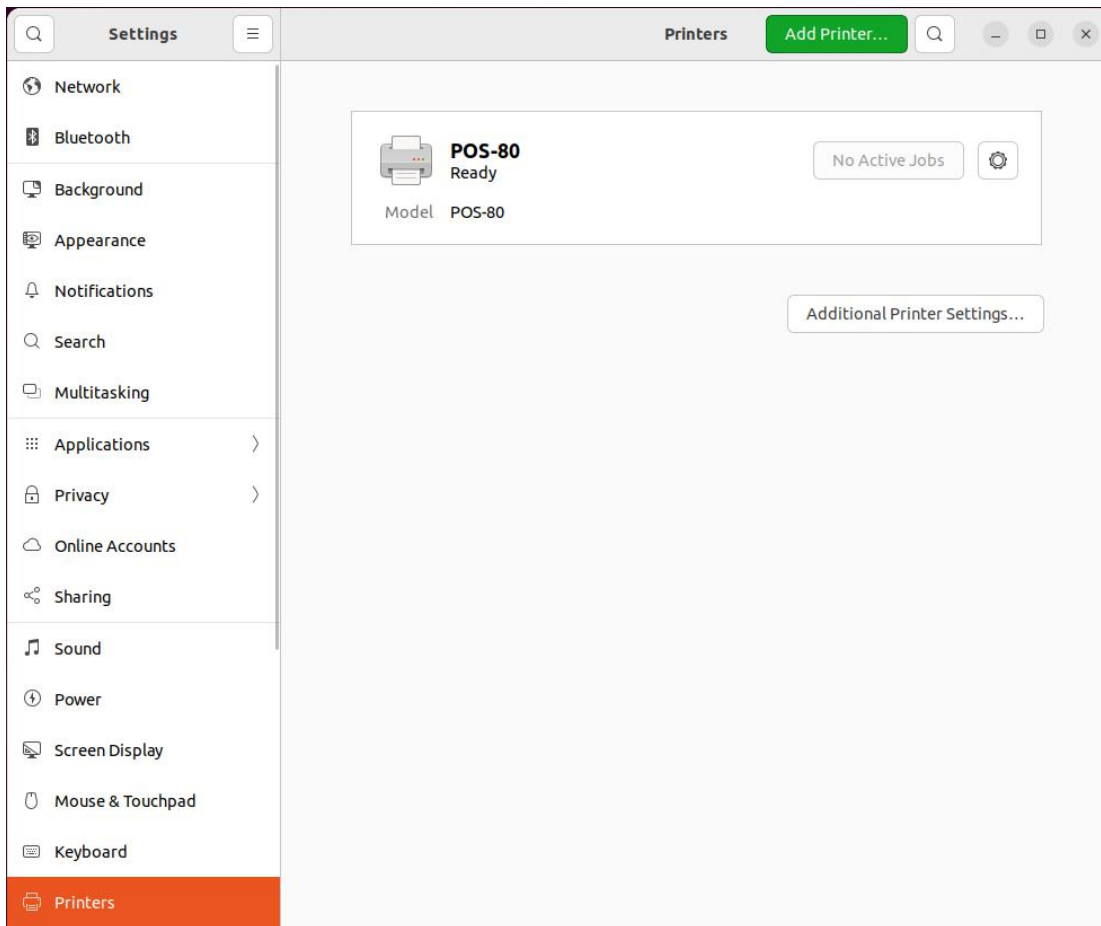
```
kim@kim-virtual-machine: ~/Desktop
kim@kim-virtual-machine:~/Desktop$ ls
printer-driver-pos_3.13.1_all.deb
kim@kim-virtual-machine:~/Desktop$ sudo dpkg -i printer-driver-pos_3.13.1_all.deb
[sudo] password for kim:
Selecting previously unselected package printer-driver-pos.
(Reading database ... 201469 files and directories currently installed.)
Preparing to unpack printer-driver-pos_3.13.1_all.deb ...
Unpacking printer-driver-pos (3.13.1) ...
Setting up printer-driver-pos (3.13.1) ...
CPU_BITS: 64
SYS_NAME: Linux
CPU_ARCH: x86_64
USB device 0x2D37 already configured!
USB device 0x2D84 already configured!
Driver success installed!
Please navigate to http://localhost:631/ for manage your printers.
kim@kim-virtual-machine:~/Desktop$ sudo dpkg -l | grep printer-driver-pos
ii  printer-driver-pos 3.13.1
    all              printer driver for POS printers
ii  printer-driver-postscript-hp 3.21.12+dfsg0-1
    amd64            HP Printers PostScript Descriptions
kim@kim-virtual-machine:~/Desktop$
```

3. Printer Select Driver

3.1 Automatic Printer Driver Matching

Linux graphical interface operation method:

After the driver installation is complete, connect the Neutral 58 or 80 Series bill printer. Open the printer management page. Due to the various versions of Linux, the process of opening the printer management page may differ. Depending on the actual system being used, open the printer management page. Taking Ubuntu 22.04 as an example, you can find the POS-58 or POS-80 printer in the printer list, indicating that the printer has been automatically added and matched with the corresponding driver. This confirms the successful installation of the printer driver, and you can proceed with the printing operation.



CUPS Print Management System Operation Method:

To connect the printer device, open a browser and enter the URL "localhost: 631" to access the CUPS printing management system. Select "Printers" to enter the printer devices page, where you can see the printer name, driver name, and printer status. If you have connected a Neutral 58 or 80 series bill printer that is supported by the driver, it will automatically install and match the driver (POS-58 or POS-80) upon printer connection, and you can view it on the "Printers" page.

Home - CUPS 2.4.1

localhost:631

OpenPrinting CUPSHomeAdministrationClassesHelpJobsPrinters

OpenPrinting CUPS 2.4.1

The standards-based, open source printing system developed by [OpenPrinting](#) for Linux® and other Unix®-like operating systems. CUPS uses [IPP Everywhere™](#) to support printing to local and network printers.

CUPS for Users

- [Overview of CUPS](#)
- [Command-Line Printing and Options](#)

CUPS for Administrators

- [Adding Printers and Classes](#)
- [Managing Operation Policies](#)
- [Using Network Printers](#)
- [Firewalls](#)
- [cupsd.conf Reference](#)

CUPS for Developers

- [CUPS Programming Manual](#)
- [Filter and Backend Programming](#)

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Printers - CUPS 2.4.1

localhost:631/printers/

OpenPrinting CUPSHomeAdministrationClassesHelpJobsPrinters

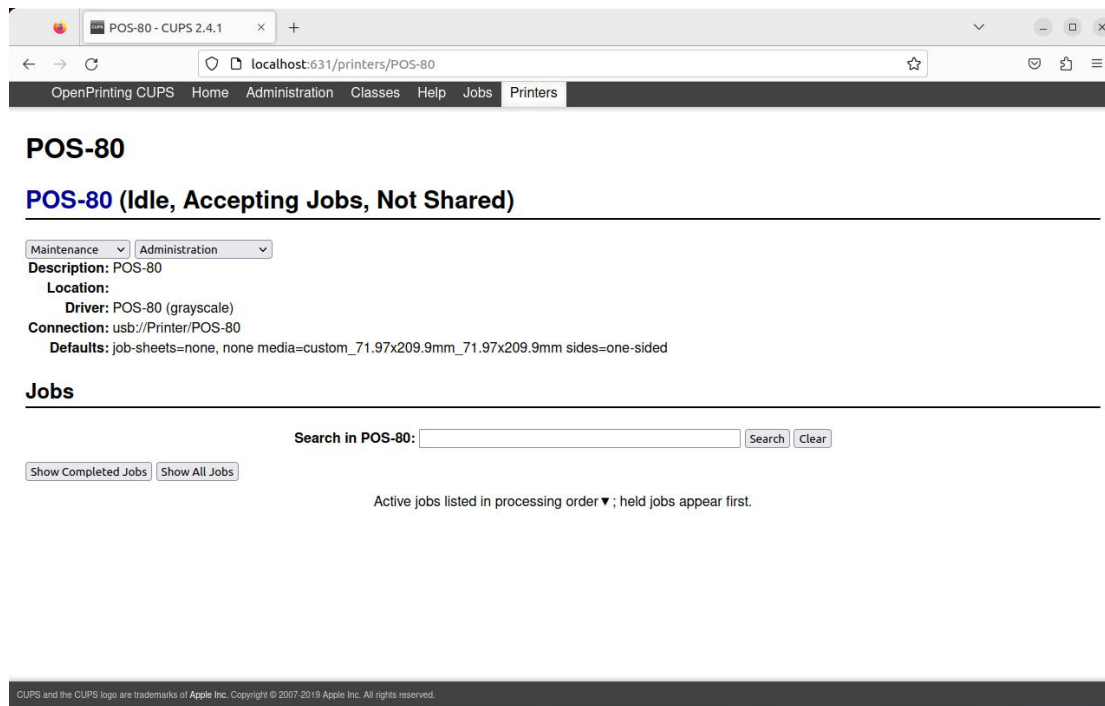
Printers

Search in Printers:

Showing 1 of 1 printer.

Queue Name	Description	Location	Make and Model	Status
POS-80	POS-80		POS-80	Idle

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3.2 Manually Adding a Printer and Selecting the Drive

Linux graphical interface operation method:

To connect a Neutral 58 or 80 series bill printer, depending on your system's printer management page, find the "Add Printer" button to add the printer and select the corresponding POS-58 or POS-80 driver.

CUPS Print Management System Operation Method:

Open a browser and enter the address "localhost: 631"> "Administration" and select "Add Printer" to add a printer. You can add a new printer and select the driver. In "Local Printers," select the desired printer. Enter the printer name in the "Description" field. Under "Make," select "POS" from the drop-down menu and choose the corresponding POS-58 or POS-80 printer driver. Finally, click "Add Printer" to complete the driver selection.

Administration - CUPS 2.4.1

localhost:631/admin

OpenPrinting CUPSHomeAdministrationClassesHelpJobsPrinters

Administration

Printers

Add Printer

Find New Printers

Manage Printers

Classes

Add Class

Manage Classes

Jobs

Manage Jobs

Server

Edit Configuration File

Server Settings:

Advanced

☐ Share printers connected to this system

☐ Allow printing from the Internet

☐ Allow remote administration

☐ Use Kerberos authentication (FAQ)

☐ Allow users to cancel any job (not just their own)

☐ Save debugging information for troubleshooting

Change Settings

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Add Printer - CUPS 2.4.1

localhost:631/admin/

OpenPrinting CUPSHomeAdministrationClassesHelpJobsPrinters

Add Printer

Local Printers:

☐ CUPS-BRF (Virtual Braille BRF Printer)

☐ Serial Port #1

☐ HP Printer (HPLIP)

☐ HP Fax (HPLIP)

☒ Printer POS-80 (Printer POS-80)

Discovered Network Printers:

Other Network Printers:

☐ Backend Error Handler

☐ Internet Printing Protocol (https)

☐ LPD/LPR Host or Printer

☐ Internet Printing Protocol (ipps)

☐ Internet Printing Protocol (http)

☐ Internet Printing Protocol (ipp)

☐ AppSocket/HP JetDirect

Continue

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Add Printer - CUPS 2.4.1

localhost:631/admin

OpenPrinting CUPSHomeAdministrationClassesHelpJobsPrinters

Add Printer

Add Printer

Name:
(May contain any printable characters except "/", "#", and space)

Description:
(Human-readable description such as "HP LaserJet with Duplexer")

Location:
(Human-readable location such as "Lab 1")

Connection:

Sharing: ☐ Share This Printer

Continue

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Add Printer - CUPS 2.4.1

localhost:631/admin

OpenPrinting CUPSHomeAdministrationClassesHelpJobsPrinters

Add Printer

Add Printer

Name: Printer_POS-80

Description: Printer POS-80

Location:

Connection: usb://Printer/POS-80

Sharing: Do Not Share This Printer

Make:

Panasonic

PCPI

PCPS

POSAuto

QMS

Raven

Raw

Ricoh

Samsung

Savin

Continue

Or Provide a PPD File:

Browse...

No file selected.

Add Printer

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Add Printer

Add Printer

Name: Printer_POS-80
Description: Printer POS-80
Location:
Connection: usb://Printer/POS-80
Sharing: Do Not Share This Printer
Make: POS (Select Another Make/Manufacturer)
Model:
POS-58 (en)
POS-76 (en)
POS-80 (en)

Or Provide a PPD File: Browse... No file selected.
Add Printer

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4. Printer Management

Printer Status Adjustment

In the CUPS Print Management System page, select "Printers" to enter the printer device page. Click "Maintenance" to expand the dropdown menu. You can use the following functions to adjust the printer status:

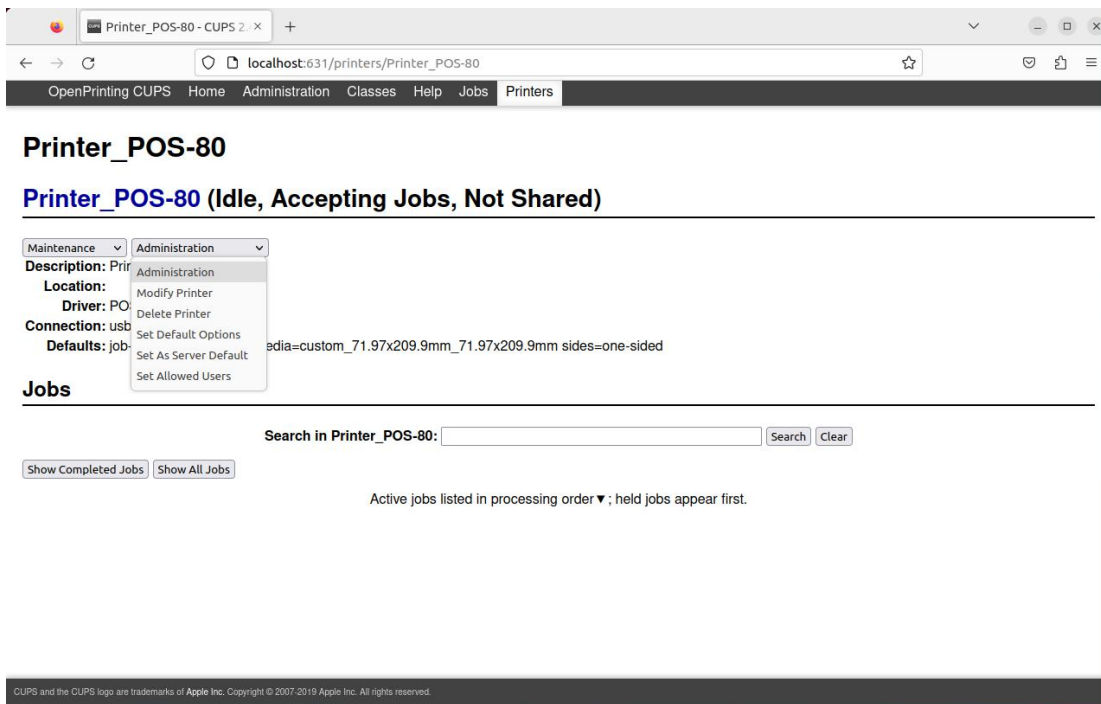
"Print Test Page";

"Pause Printer/Resume Printer";

"Reject Jobs/Accept Job";

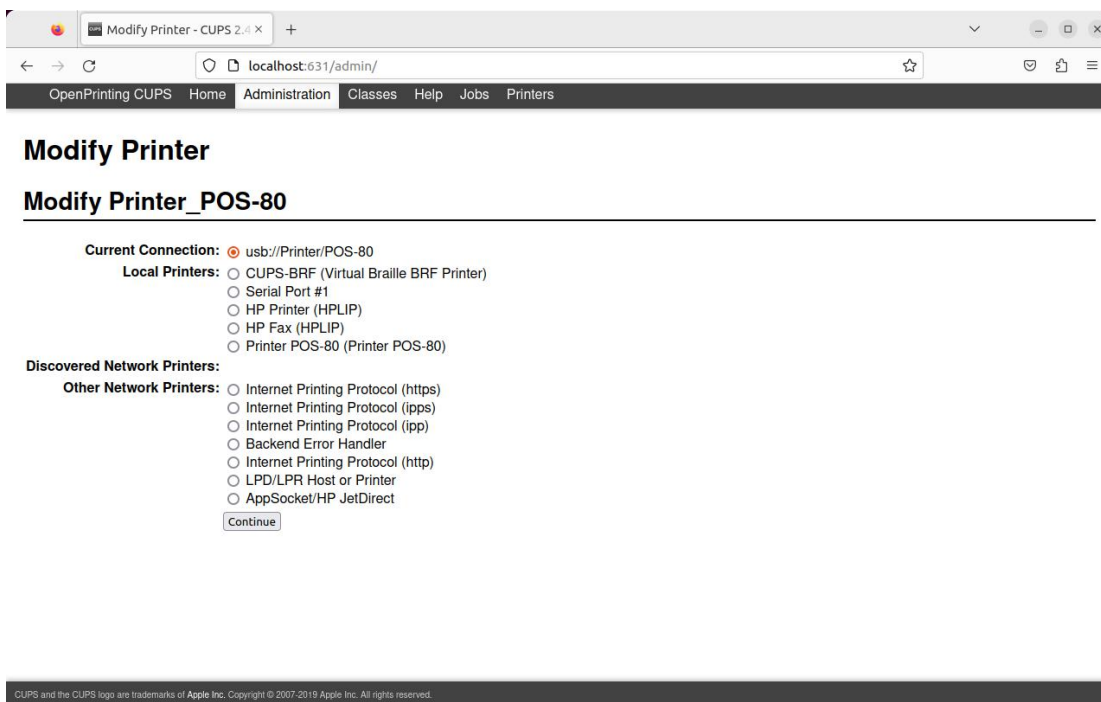
"Move All Jobs";

"Cancel All Jobs".



"Modify Printer";

Select the desired printer in "Local Printers," enter the printer name in the "Description" field, select "POS" under "Select Another Make/Manufacturer," and choose the corresponding POS-58 or POS-80 printer driver. Finally, click "Modify Printer" to complete the driver selection.



修改打印机

Modify POS-80

Description:

POS-80

(Human-readable description such as "HP LaserJet with Duplexer")

Location:

(Human-readable location such as "Lab 1")

Connection:

usb://Printer/POS-80

Sharing:

☒ Share This Printer

Continue

Modify Printer

Modify Printer_POS-80

Description:

Printer POS-80

Location:

Connection:

usb://Printer/POS-80

Sharing:

☐ Do Not Share This Printer

Make:

POS

Select Another Make/Manufacturer

Model:

Current Driver - POS-80

POS-80 (en)

POS-58 (en)

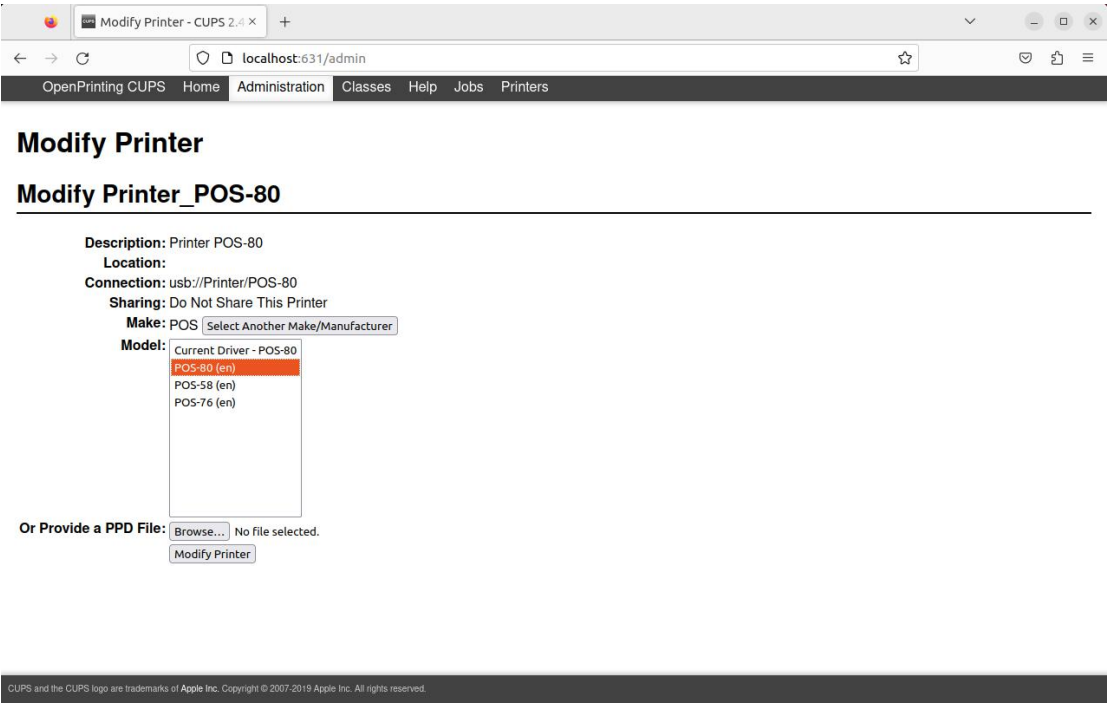
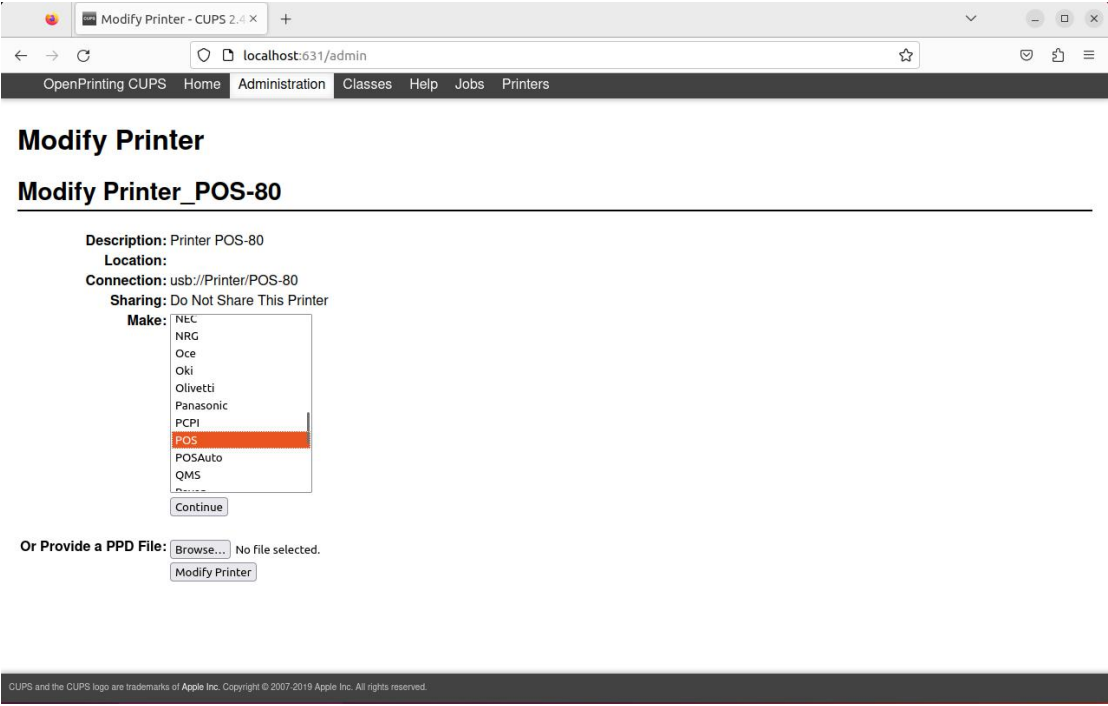
POS-76 (en)

Or Provide a PPD File:

Browse...

No file selected.

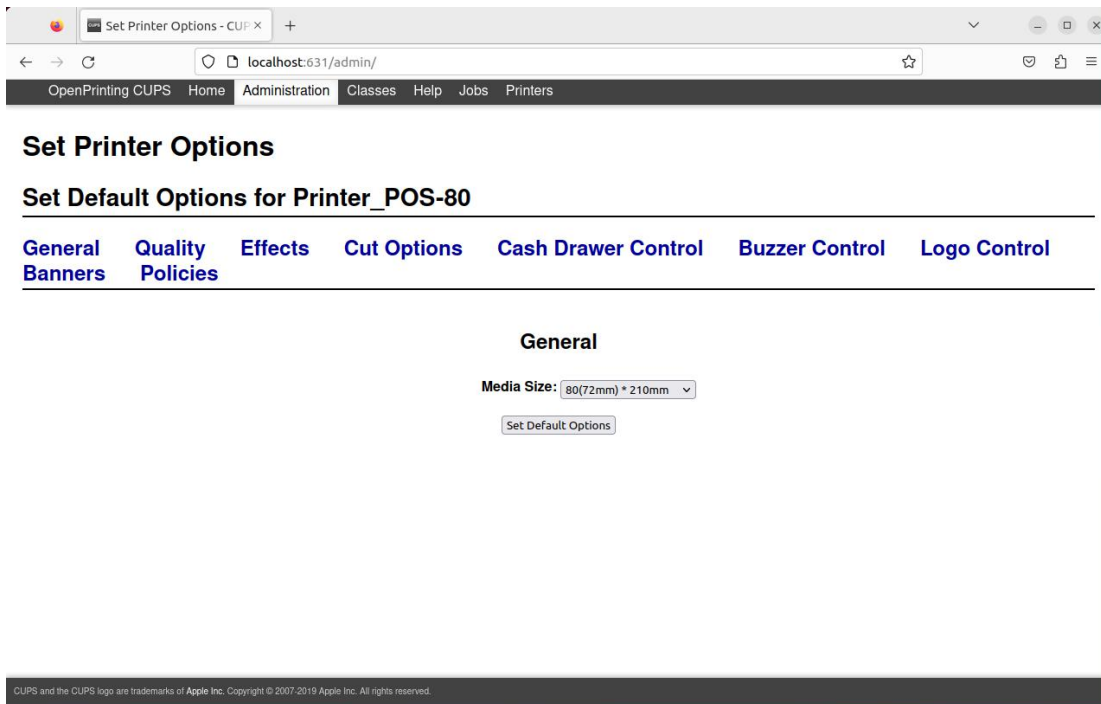
Modify Printer



"Set Default Options"

General (General)

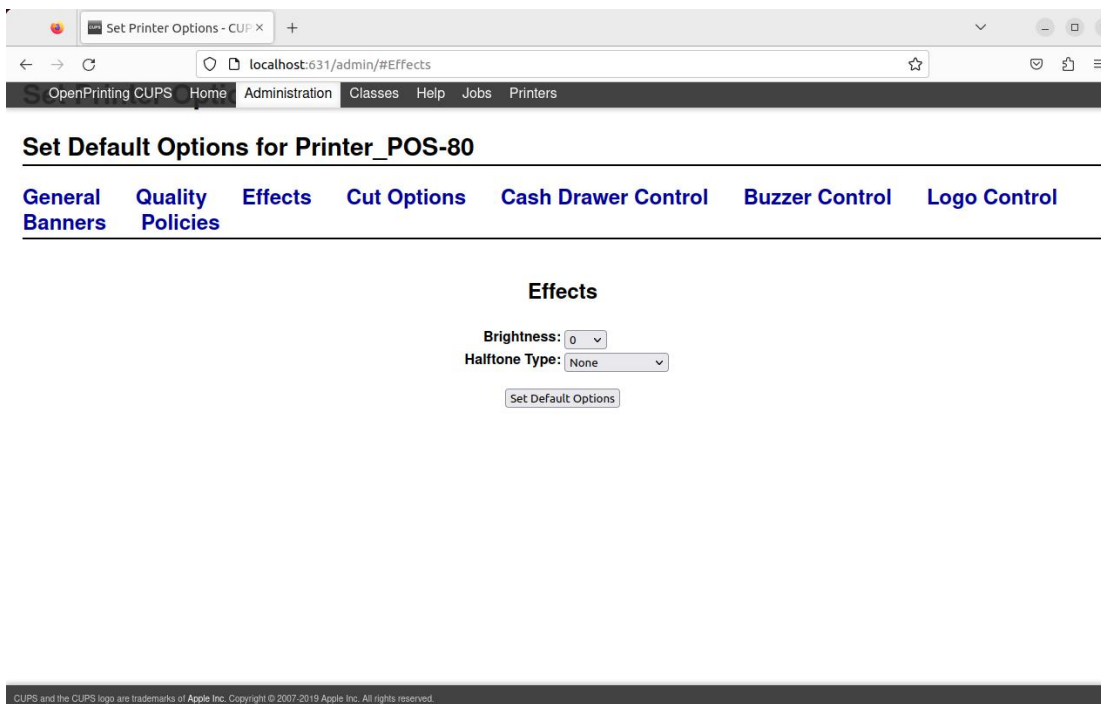
Paper Size: Set the paper size for printing. The list includes preset paper sizes, or you can choose "Custom" to customize the paper size.



The screenshot shows a web browser window with the address bar at `localhost:631/admin/`. The page title is "Set Printer Options - CUPS". The navigation bar includes links: OpenPrinting CUPS, Home, Administration, Classes, Help, Jobs, and Printers. The main heading is "Set Printer Options" followed by "Set Default Options for Printer_POS-80". Below this is a horizontal menu with tabs: General Banners, Quality Policies, Effects, Cut Options, Cash Drawer Control, Buzzer Control, and Logo Control. The "General" tab is selected, displaying the "General" section. It features a "Media Size" dropdown menu set to "80(72mm) * 210mm" and a "Set Default Options" button. The footer contains the text: "CUPS and the CUPS logo are trademarks of Apple Inc. Copyright © 2007-2019 Apple Inc. All rights reserved."

Effect (Effect)

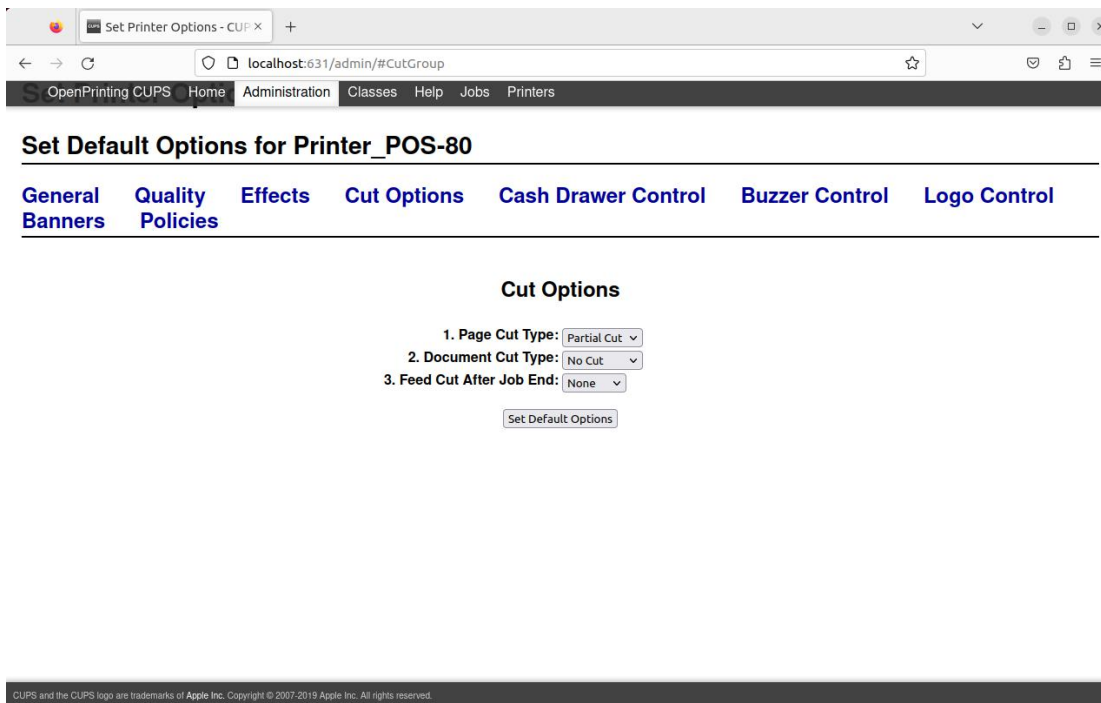
1. Brightness: -50, -40, -30, -20, -10, 0, 10, 20, 30, 40, 50 can be set
2. Dithering: Choose between "None" and "Error Diffusion"



The screenshot shows the same web browser window, but the "Effects" tab is selected in the horizontal menu. The "Effects" section is displayed, featuring a "Brightness" dropdown menu set to "0" and a "Halftone Type" dropdown menu set to "None". A "Set Default Options" button is located below these settings. The footer text remains the same: "CUPS and the CUPS logo are trademarks of Apple Inc. Copyright © 2007-2019 Apple Inc. All rights reserved."

Cut Option (Cut Option)

1. Page Cut Type (Page Cut Type): Select from "No Cut" (Do not perform cutting), "Partial Cut" (Partial Cut means Perform partial cutting), or "Full Cut" (Cut it all off). If the printer only has the "Full Cut" function, setting "Partial Cut" will have no effect, and the printer will still perform a full cut. Similarly, if the printer only has the "Partial Cut" function, setting "Full Cut" will have no effect.
2. Document Cut Type (Document Cut Type): No Cut (No Cut), Partial Cut (Perform partial cutting), Full Cut (Cut it all off).
3. Feed Cut After Job End (Feed Cut After Job End): The length of the paper left after cutting is adjustable. It can be set to "None" (None) for no extra paper, or select 1 Line-15 Line (1-15 lines) to leave as extra paper.



Set Printer Options - CUP x

localhost:631/admin/#CutGroup

OpenPrinting CUPS Home Administration Classes Help Jobs Printers

Set Default Options for Printer_POS-80

General Banners Quality Policies Effects **Cut Options** Cash Drawer Control Buzzer Control Logo Control

Cut Options

1. Page Cut Type: Partial Cut

2. Document Cut Type: No Cut

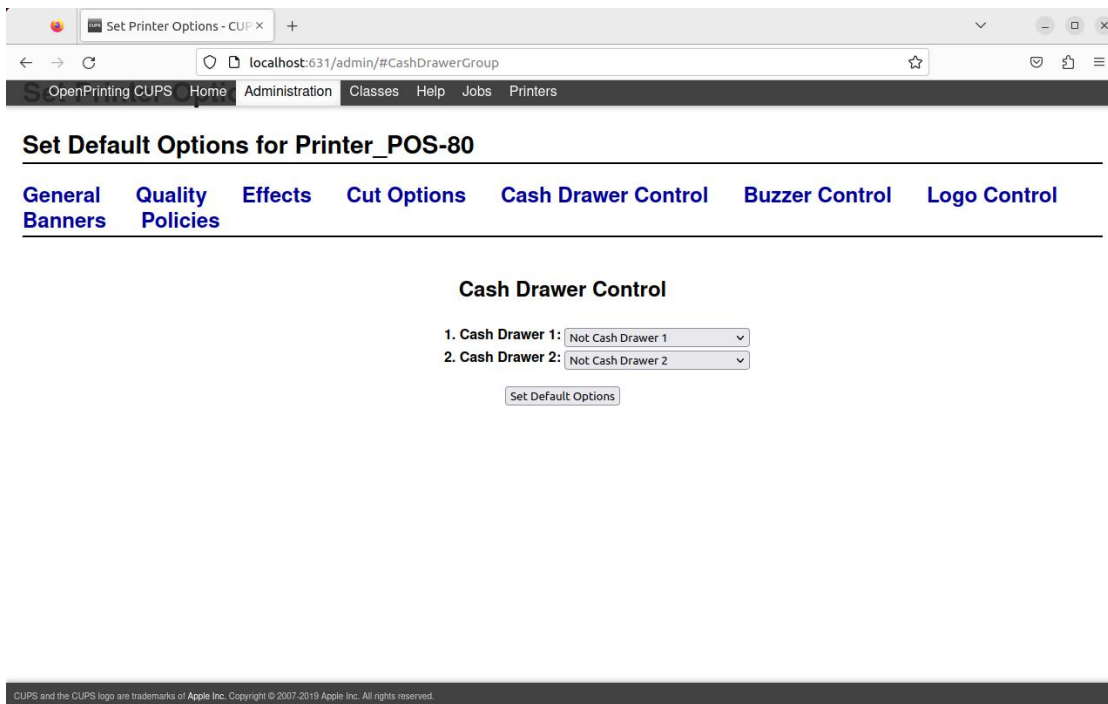
3. Feed Cut After Job End: None

Set Default Options

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Cash Drawer Control (Cash Drawer Control)

1. Cash Drawer 1 (Cash Drawer 1): Not Cash Drawer 1 (Not Cash Drawer), Cash Drawer 1 Before Printing (Cash Drawer Before Printing), Cash Drawer 1 After Printing (Cash Drawer After Printing). The printer needs to be connected to the cash drawer before setting this function.
2. Cash Drawer 2 (Cash Drawer 2): Not Cash Drawer 1 (Not Cash Drawer), Cash Drawer 1 Before Printing (Cash Drawer Before Printing), Cash Drawer 1 After Printing (Cash Drawer After Printing)



Buzzer Control (Buzzer Control)

1. Document Buzzer (Document Buzzer): No Use (No Use), Document Before (Document Before), Document After (Document After)
2. Page Buzzer (Page Buzzer): No Use (No Use), Document Before (Document Before), Document After (Document After)
3. Buzzer-On Time (Buzzer-On Time): 50-450 milliseconds (ms)
4. Buzzer Repeat (Buzzer Repeat): 1-9 (times)

The screenshot shows a web browser window with the address bar at `localhost:631/admin/#BuzzerGroup`. The page title is "Set Default Options for Printer_POS-80". The navigation menu includes "General Banners", "Quality Policies", "Effects", "Cut Options", "Cash Drawer Control", "Buzzer Control", and "Logo Control". The "Buzzer Control" section is active, showing four settings:

- 1. Document Buzzer: No Use
- 2. Page Buzzer: No Use
- 3. Buzzer - On Time: 50 milliseconds
- 4. Buzzer - Repeat: 1

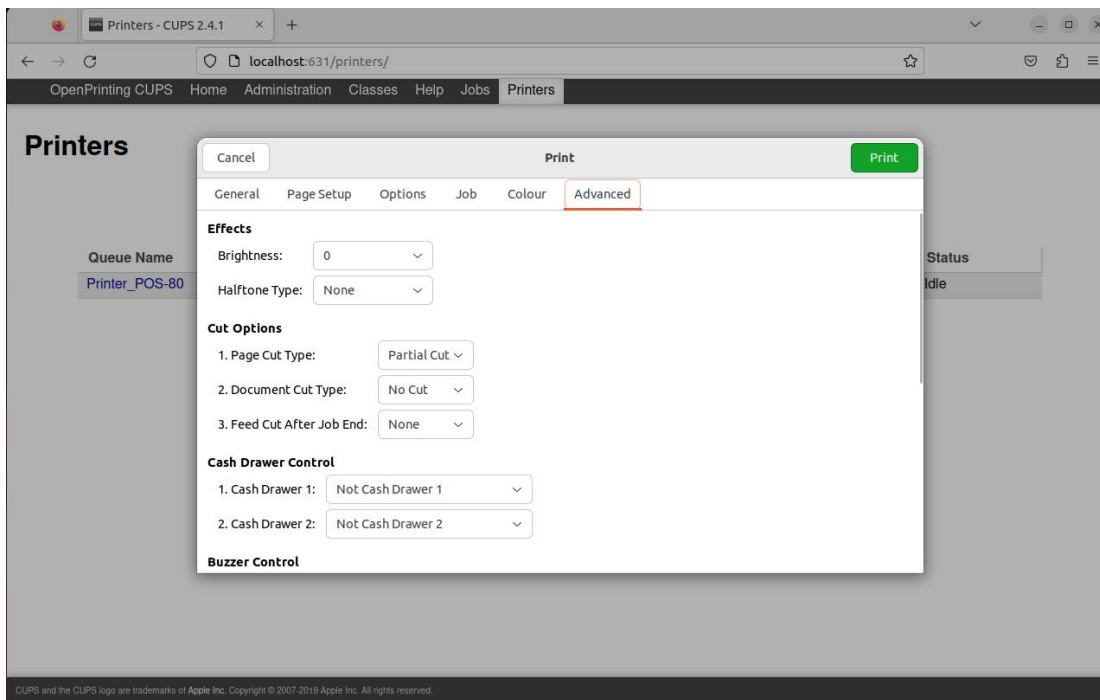
Below these settings is a button labeled "Set Default Options". At the bottom of the page, a footer note states: "CUPS and the CUPS logo are trademarks of Apple Inc. Copyright © 2007-2019 Apple Inc. All rights reserved."

Printer parameter settings can also be configured in the Linux system. Taking Ubuntu version 22.04 as an example, when encountering a preview window while printing web pages, memos, PDFs, documents, or spreadsheets, click "Print using system dialog...", then select "Advanced" in the print window to modify the default driver settings.

The screenshot displays the Ubuntu print dialog. On the left, a preview of the document "Printers - CUPS 2.4.1" is shown. On the right, the "Print" settings panel is visible, showing "1 sheet of paper". The settings include:

- Destination:** Printer_POS-80
- Copies:** 1
- Orientation:** Portrait (selected), Landscape
- Pages:** All
- Colour mode:** Black and white
- More settings:** (expanded)

At the bottom of the "More settings" section, there is a link "Print using the system dialog..." with an external link icon. At the very bottom of the dialog are "Cancel" and "Print" buttons. The status bar at the bottom indicates "1 of 1" and the date/time "3/27/23, 10:34".



5. Uninstall Bill Driver

Open Terminal Command Line

Regular Delete:

1. Open the terminal command line and enter "sudo dpkg-r printer-driver-pos" followed by pressing Enter. Enter the user password when prompted to complete the removal step. The POS driver will no longer be available in the manual printer addition and printer driver modification pages of the CUPS Print Management System.

```
kim@kim-virtual-machine: ~/Desktop
kim@kim-virtual-machine:~/Desktop$ sudo dpkg -r printer-driver-pos
[sudo] password for kim:
(Reading database ... 201813 files and directories currently installed.)
Removing printer-driver-pos (3.13.1) ...
kim@kim-virtual-machine:~/Desktop$
```

Complete Delete:

1. Open the terminal command line and enter "sudo apt-get purge printer-driver-pos" followed by pressing Enter. Enter the user password when prompted. Enter "Y" to confirm and complete the thorough removal step.
2. Enter "sudo dpkg-l | grep printer-driver-pos" and press Enter to search for the Neutral driver. If "printer driver for POS printers" is not displayed, it indicates that the driver has been successfully uninstalled, and the configuration files have also been deleted.

```
kim@kim-virtual-machine: ~/Desktop
kim@kim-virtual-machine:~/Desktop$ sudo dpkg -r printer-driver-pos
[sudo] password for kim:
dpkg: warning: ignoring request to remove printer-driver-pos, only the config
files of which are on the system; use --purge to remove them too
kim@kim-virtual-machine:~/Desktop$ sudo apt-get purge printer-driver-pos
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following packages will be REMOVED:
 printer-driver-pos*
0 upgraded, 0 newly installed, 1 to remove and 194 not upgraded.
After this operation, 0 B of additional disk space will be used.
Do you want to continue? [Y/n] y
(Reading database ... 201469 files and directories currently installed.)
Purging configuration files for printer-driver-pos (3.13.1) ...
kim@kim-virtual-machine:~/Desktop$ sudo dpkg -l | grep printer-driver-pos
ii printer-driver-postscript-hp 3.21.12+dfsg0-1
amd64 HP Printers PostScript Descriptions
kim@kim-virtual-machine:~/Desktop$
```