

To Install or Add a Zebra Printer

Using Safari for MAC or Mozilla for Linux OS's enter either <http://localhost:631/> or 127.0.0.1:631/ to access the CUPS driver. On the MAC OS and some Linux versions it is built-in directly. The following examples are all based on the 1.4.2 version of the CUPS driver which requires installation of the Snow Leopard MAC OS.

The CUPS contributors made significant changes to the 1.4.# interface compared to previous 1.3.# versions. Zebra was present in 1.3.# versions and once you get to the Zebra printer setup the options are basically the same.

From the Home screen select Adding Printers and Classes



CUPS 1.4.2

CUPS is the standards-based, open source printing system developed by [Apple Inc.](#) for Mac OS® X and other UNIX®-like operating systems.



CUPS for Users

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Select Add Printer (Classes are just a way grouping similar printers if a customer chooses to)

Printers

Add Printer Find New Printers Manage Printers

Classes

Add Class Manage Classes

Jobs

Manage Jobs

Add Printer

Looking for printers...

Local Printers: Fax Printer (fax)

Discovered Network Printers:

Other Network Printers:

Continue

Ethernet Connected Printer

After CUPS completes “Looking for printers...” Any other options available but not listed here depend on the configuration of your MAC or Linux Operating System.

Zebra Print Servers do not support HTTP or IPP printing.

Zebra printers are capable of LPD/LPR printing. However, on MAC and Linux OS’s it is intended to be used for Command Line or Print Queue printing. Zebra’s support of the CUPS driver does not extend to Command Line or Print Queue printing.

Windows Printer via SAMBA is a shared printer created with the Operating system and is not covered by these instructions or supported directly by Zebra.



Add Printer

- Local Printers:** Fax Printer (fax)
 Bluetooth-Modem
 EPSON FireWire

Discovered Network Printers:

- Other Network Printers:** Internet Printing Protocol (http)
 Internet Printing Protocol (ipp)
 LPD/LPR Host or Printer
 Windows Printer via SAMBA
 AppSocket/HP JetDirect

[Continue](#)

USB Connected Printer

When a Zebra USB printer is connected, CUPS finds the printer and adds to the list of **Local Printers**

Add Printer

- Local Printers:** Fax Printer (fax)
 Bluetooth-Modem
 EPSON FireWire
 Zebra Technologies ZTC GK420d (Zebra Technologies ZTC GK420d)

Discovered Network Printers:

- Other Network Printers:** Internet Printing Protocol (http)
 Internet Printing Protocol (ipp)
 LPD/LPR Host or Printer
 Windows Printer via SAMBA
 AppSocket/HP JetDirect

[Continue](#)

After selecting the AppSocket/HP JetDirect option for Ethernet connected printers or a printer from the list of **Local Printers**, click Continue.

Serial and Parallel are possible connections for LINUX supported OS's that can be made available as the printers are connected. A Linux Admin could send the following commands to create the ports:

To enable the serial port in Linux: `Chmod a+rw /dev/ttyS0`

To enable the parallel port in Linux: `Chmod a+rw /dev/lp0 or /dev/lp1`

Name and **Description** are automatically populated for a USB connected printer but can be changed.



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: `usb://Zebra%20Technologies/ZTC%20GK420d?serial=28A07490011`

Sharing: Share This Printer

Sharing is optional and controlled by users created on the OS. USB default is to share.

When **AppSocket/HP JetDirect** is selected the following screen appears prompting for a connection. Enter `socket://IP Address:9100` for example: `socket://10.3.9.55:9100` (addresses may also populate to select from)

Add Printer

Connection:

Examples:

See "[Network Printers](#)" for the correct URI to use with your printer.

For Ethernet connected printers **Name** and **Description** start out blank.

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: socket://10.3.9.55:9100

Sharing: Share This Printer

Default is not to share. Click Continue

Add Printer

Name: GK420D

Description: Ethernet-10.3.9.55

Location: LAB

Connection: socket://10.3.9.55:9100

Sharing: Do Not Share This Printer

Make:

Or Provide a PPD File: no file selected

Select Zebra (for USB connected printers Zebra is selected for you) then click continue.

Note – providing a PPD File is only used for instances when a **Make:** you need to select is not available and the manufacture has provided a PPD file to you to manually populate. Assistance for Zebra printer's from Zebra is not available for PPD files, only available when the available Zebra option is selected

Add Printer

Name: GK420D
Description: Ethernet-10.3.9.55
Location: LAB
Connection: socket://10.3.9.55:9100
Sharing: Do Not Share This Printer
Make: Zebra
Model:

Or Provide a PPD File: no file selected

Within the CUPS driver, Zebra printers are not selected by model only by printer language.

CPCL is a mobile printer language (some mobile printers can also understand EPL or ZPL).
EPL1 & EPL2 are primarily desktop printer languages.
ZPL is primarily a tabletop printer language or desktops ending with a -Z (Ex: LP2844-Z).
*G-Series printers understand both EPL and ZPL.

Select a language then click Add Printer

Set Default Options for GK420D

[General](#) [Printer Settings](#) [Banners](#) [Policies](#)

General

Media Size:
Height:
Width:
Units:
Resolution:
Media Tracking:
Media Type:

Because printers are not selectable by model, default options may be available that do not apply to your printer model. At this point it is best to have a printer's configuration label and printer specs available to make correct choices.

The following are examples of options available for a ZPL language printer:

Media Size has a long drop down list of available label sizes to select. At the end of the list you can choose the Custom option and enter your own label size (recent tests show custom page sizes entered in the CUPS v1.4.2 are not saving. A bug report will be submitted to CUPS.org).

Resolution has a drop down list of:

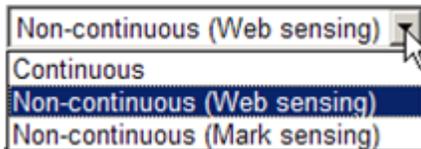


If you are not certain what to select here is important to refer to and match the printer's configuration label. Print that is larger or smaller than expected usually means the wrong dpi was selected.

Note – on a ZPL configuration label

RESOLUTION 832 8/MM FULL = 203 dpi
RESOLUTION 1232 12/MM FULL = 300 dpi
RESOLUTION 1632 16/MM FULL = 600 dpi

Media Tracking:



Media Type:

Printer Default means no command will be sent and the current setting of the printer will not be changed

Thermal Transfer Media means the printer is using a ribbon

Direct Thermal Media means a ribbon is installed in the printer and required for the selected labels (choosing the correct label and ribbon combination is critical to print quality).

Click  after selections have been made. The following screen then appears.

GK420D (Idle, Accepting Jobs, Not Shared)

Maintenance Administration

Description: Ethernet-10.3.9.55

Location: LAB

Driver: Zebra ZPL Label Printer (grayscale)

Connection: socket://10.3.9.55:9100

Defaults: job-sheets=none, none media=adobe_w288h360_4x5in

Jobs

Search in GK420D:

No jobs.

Click Maintenance for these options

- ✓ Maintenance
- Print Test Page
- Pause Printer
- Reject Jobs
- Move All Jobs
- Cancel All Jobs

Click Administration for these options

- ✓ Administration
- Modify Printer
- Delete Printer
- Set Default Options
- Set As Server Default
- Set Allowed Users

Choose Modify Printer or Set Default Options to go back and make changes to the initial settings.

Modify GK420D

Current Connection: socket://10.3.9.55:9100

- Local Printers:**
- Fax Printer (fax)
 - Bluetooth-Modem
 - EPSON FireWire
 - Zebra Technologies ZTC GK420d (Zebra Technologies ZTC GK420d)

Discovered Network Printers:

- Other Network Printers:**
- Internet Printing Protocol (http)
 - Internet Printing Protocol (ipp)
 - LPD/LPR Host or Printer
 - Windows Printer via SAMBA
 - AppSocket/HP JetDirect

Set Default Options for GK420D

[General](#) [Printer Settings](#) [Banners](#) [Policies](#)

General

Media Size: Custom ▾
Height: 0
Width: 0
Units: Points ▾

Resolution: 203dpi ▾

Media Tracking: Non-continuous (Web sensing) ▾

Media Type: Printer Default ▾

Set Default Options

Other printer languages have the following General Options available:

EPL1

Media Size (1.25 x .25 – 4.00 x 13.00 & Custom)

Resolution (203/300/600)

EPL2

Media Size (1.25 x .25 – 4.00 x 13.00 & Custom)

Resolution (203/300/600)

Media Type (Thermal Transfer or Direct Thermal)

CPCL

Media Size (2 x 1 – 4 x 6 & Custom)

Resolution (203 dpi only)

Media Tracking (Continuous, Non-Continuous, or Mark)