

Installing Godex Linux driver

Overview:

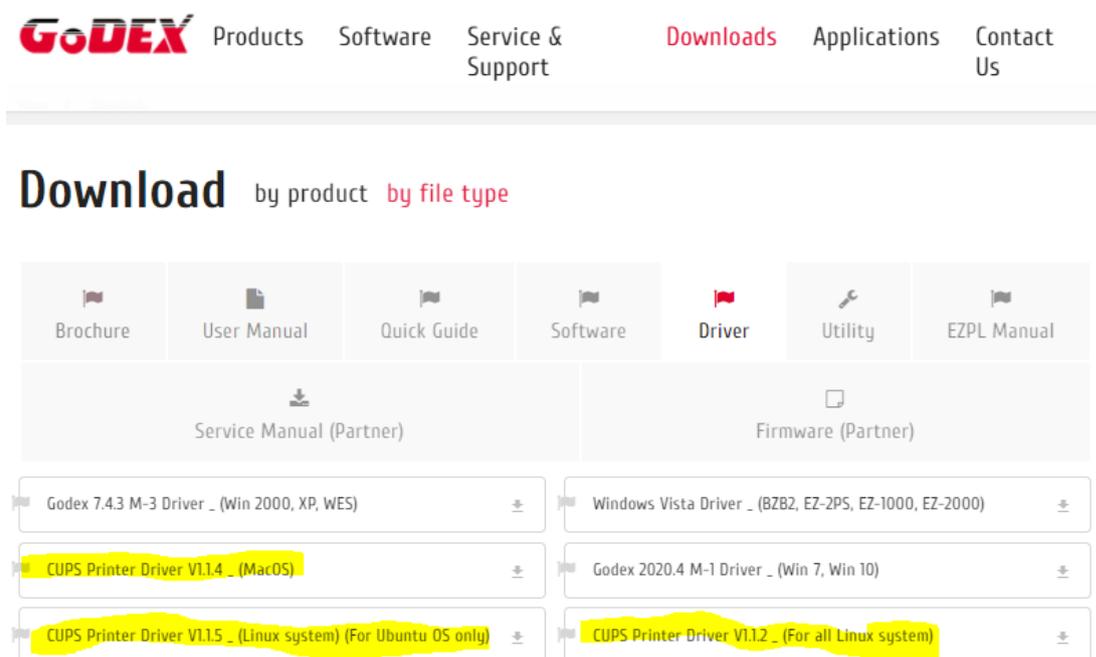
Godex Linux and macOS drivers are based on CUPS (formerly an acronym for Common UNIX Printing System) is a modular printing system for Unix and Unix-like operating systems which allows a computer to act as a print server. A computer running CUPS is a server that can accept print jobs from client computers, process them, and send them to the appropriate printer. CUPS consists of a print spooler and scheduler, a filter system that converts the print data to a format that the printer will understand, and a backend system that sends this data to the print device.

More information about CUPS you can find under: <https://www.cups.org/>

Information below describes the standard installation of Godex printer driver in Linux environment. For advance installation and more information, please refer to documents provided together with the driver in *rastertoezpl-1.1.2/doc* and CUPS documentation under <https://www.cups.org/>.

Driver download:

The actual version of Godex Linux/MAC driver can be found in Godex International official website under Downloads -> **Driver**
(https://www.godexintl.com/downloads?locale=en_GB)

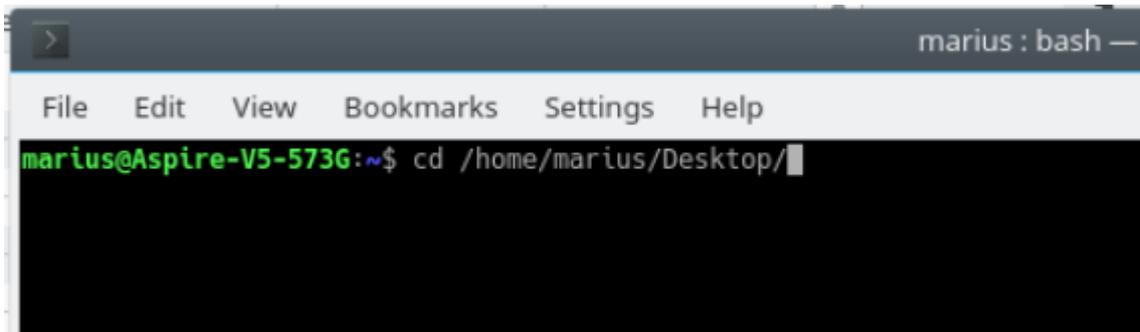


Brochure	User Manual	Quick Guide	Software	Driver	Utility	EZPL Manual
Service Manual (Partner)			Firmware (Partner)			
Godex 7.4.3 M-3 Driver _ (Win 2000, XP, WES)			Windows Vista Driver _ (BZB2, EZ-2PS, EZ-1000, EZ-2000)			
CUPS Printer Driver V1.1.4 _ (MacOS)			Godex 2020.4 M-1 Driver _ (Win 7, Win 10)			
CUPS Printer Driver V1.1.5 _ (Linux system) (For Ubuntu OS only)			CUPS Printer Driver V1.1.2 _ (For all Linux system)			

Please download the appropriate driver for the OS you want to install it on.

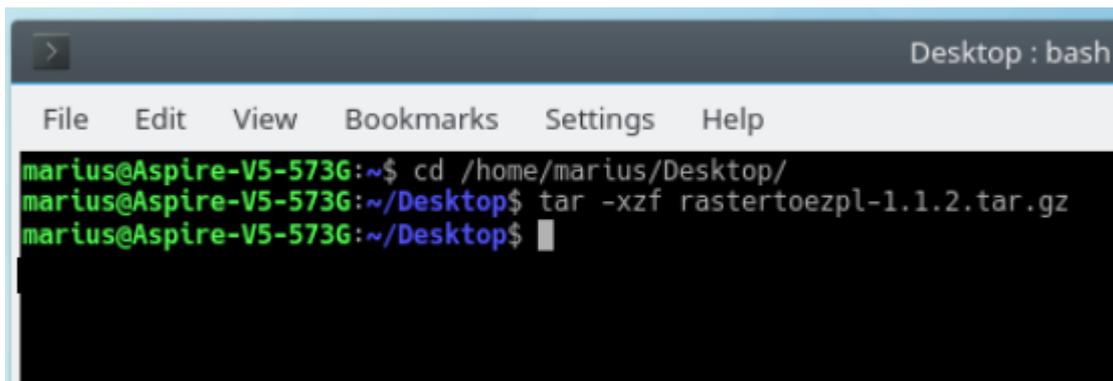
Driver install:

Launch terminal on your Linux machine and change the directory to the folder where you saved the downloaded file:



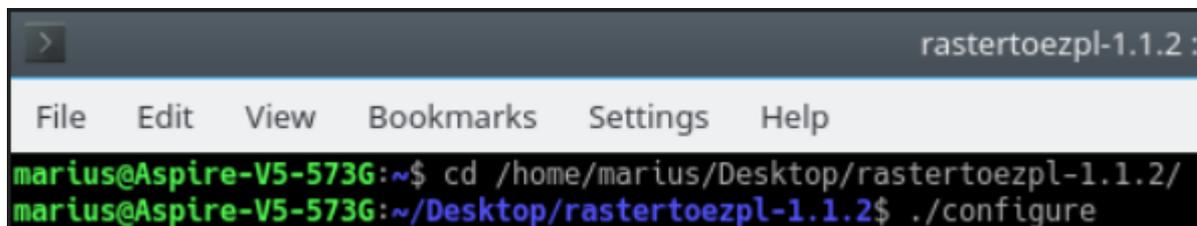
```
marius : bash —
File Edit View Bookmarks Settings Help
marius@Aspire-V5-573G:~$ cd /home/marius/Desktop/
```

Type in “tar -xzf rastertoezpl-1.1.2.tar.gz” in the terminal to extract the archive:



```
Desktop : bash —
File Edit View Bookmarks Settings Help
marius@Aspire-V5-573G:~$ cd /home/marius/Desktop/
marius@Aspire-V5-573G:~/Desktop$ tar -xzf rastertoezpl-1.1.2.tar.gz
marius@Aspire-V5-573G:~/Desktop$
```

Change directory to the extracted archive folder and send: “./configure” command:



```
rastertoezpl-1.1.2 :
File Edit View Bookmarks Settings Help
marius@Aspire-V5-573G:~$ cd /home/marius/Desktop/rastertoezpl-1.1.2/
marius@Aspire-V5-573G:~/Desktop/rastertoezpl-1.1.2$ ./configure
```

Send the command: “make”

```
marius@Aspire-V5-573G:~/Desktop/rastertoezpl-1.1.2$ make
make all-recursive
make[1]: Entering directory '/home/marius/Desktop/rastertoezpl-1.1.2'
Making all in src
make[2]: Entering directory '/home/marius/Desktop/rastertoezpl-1.1.2/src'
gcc -DHAVE_CONFIG_H -I. -I.. -DVERSION='"1.1.2"' -g -O2 -MT rastertoezpl.o rastertoezpl.c
mv -f .deps/rastertoezpl.Tpo .deps/rastertoezpl.Po
gcc -g -O2 -o rastertoezpl rastertoezpl.o -lcupsimage -lcups
make[2]: Leaving directory '/home/marius/Desktop/rastertoezpl-1.1.2/src'
make[2]: Entering directory '/home/marius/Desktop/rastertoezpl-1.1.2'
make[2]: Leaving directory '/home/marius/Desktop/rastertoezpl-1.1.2'
make[1]: Leaving directory '/home/marius/Desktop/rastertoezpl-1.1.2'
marius@Aspire-V5-573G:~/Desktop/rastertoezpl-1.1.2$
```

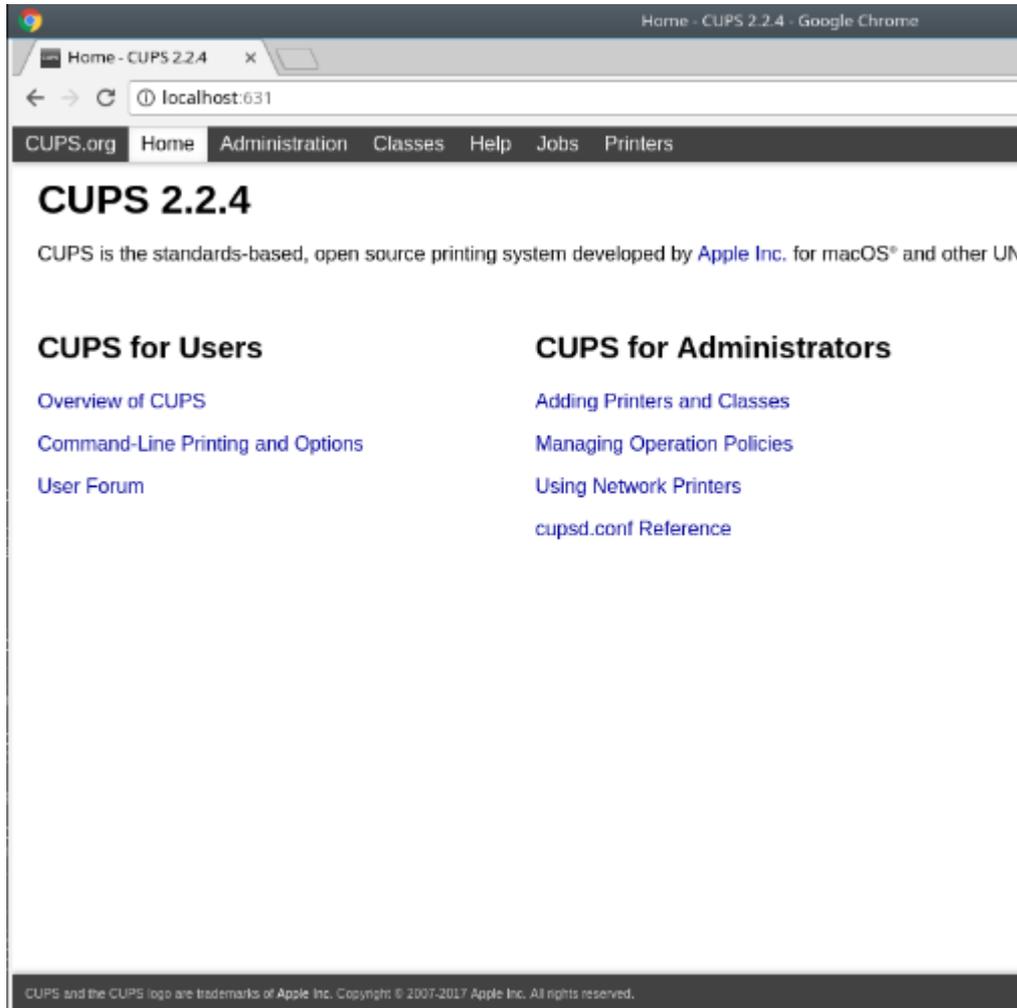
If your system support “*sudo*”, please send the command: “*sudo make install*”, otherwise run “*make install*” as root user.

```
marius@Aspire-V5-573G:~/Desktop/rastertoezpl-1.1.2$ sudo make install
Making install in src
make[1]: Entering directory '/home/marius/Desktop/rastertoezpl-1.1.2/src'
make[2]: Entering directory '/home/marius/Desktop/rastertoezpl-1.1.2/src'
/bin/mkdir -p '/usr/local/libexec/rastertoezpl'
/usr/bin/install -c rastertoezpl '/usr/local/libexec/rastertoezpl'
make install-exec-hook
make[3]: Entering directory '/home/marius/Desktop/rastertoezpl-1.1.2/src'
ln -s /usr/local/libexec/rastertoezpl/rastertoezpl /usr/lib/cups/filter
make[3]: Leaving directory '/home/marius/Desktop/rastertoezpl-1.1.2/src'
make[2]: Nothing to be done for 'install-data-am'.
make[2]: Leaving directory '/home/marius/Desktop/rastertoezpl-1.1.2/src'
make[1]: Leaving directory '/home/marius/Desktop/rastertoezpl-1.1.2/src'
make[1]: Entering directory '/home/marius/Desktop/rastertoezpl-1.1.2'
make[2]: Entering directory '/home/marius/Desktop/rastertoezpl-1.1.2'
make[2]: Nothing to be done for 'install-exec-am'.
/bin/mkdir -p /usr/local/share/ppd/godex
/usr/bin/install -c -m a=r,u=rw ".ppds/ppd/*" /usr/local/share/ppd/godex
No path (PPDLINK) for symbolic link to PPD files.
/bin/mkdir -p '/usr/local/share/doc/rastertoezpl'
/usr/bin/install -c -m 644 doc/beginner_readme doc/FAQ doc/README doc/README_macOS
local/share/doc/rastertoezpl'
make[2]: Leaving directory '/home/marius/Desktop/rastertoezpl-1.1.2'
make[1]: Leaving directory '/home/marius/Desktop/rastertoezpl-1.1.2'
marius@Aspire-V5-573G:~/Desktop/rastertoezpl-1.1.2$
```

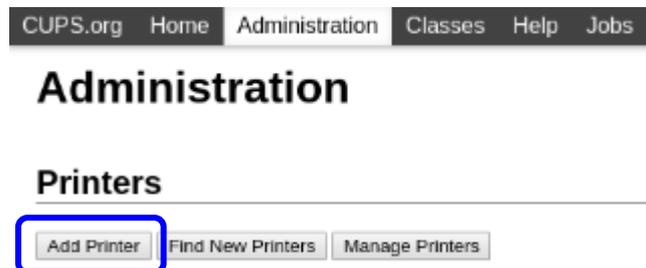
Adding Godex printer to CUPS:

After the compilation and installation of filter and PPD files, you need to add a new printer to CUPS. The default administration of CUPS is at <http://localhost:631>. Some distributions for CUPS administration may use not only <http://localhost:631>, but also some other SW.

Open web browser and enter <http://localhost:631> to the address bar:



Select Administration and Add Printer:



Adding USB connected printer:

If the printer is connected with **USB**, it will show under *Local printers*, please select it:

CUPS.org Home Administration Classes Help Jobs Printers

Add Printer

Add Printer

Local Printers:

- HP Printer (HPLIP)
- CUPS-BRF (Virtual Braille BRF Printer)
- Epson Inkjet Printer #1 (Epson Backend)
- GODEX RT860i (GODEX RT860i)**
- HP Fax (HPLIP)

Discovered Network Printers:

Other Network Printers:

- AppSocket/HP JetDirect
- Internet Printing Protocol (ipp)
- Internet Printing Protocol (https)
- Backend Error Handler
- LPD/LPR Host or Printer
- Internet Printing Protocol (ipp)
- Internet Printing Protocol (http)

Make modifications to the names, if needed:

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

In case of USB connection, the model should be suggested automatically, select Add Printer:

Add Printer

Name: GODEX_RT860i

Description: GODEX RT860i

Location:

Connection: usb://GODEX/RT860i?serial=143600F2

Sharing: Do Not Share This Printer

Make: GODEX

Model:
GODEX BP500L (DT), 1.1.2 (en, en, cs, de, es, fr, hu, it, ja, ko, pl, pt, ru, tr, zh_CN, zh_TW)
GODEX BP500L, 1.1.2 (en, en, cs, de, es, fr, hu, it, ja, ko, pl, pt, ru, tr, zh_CN, zh_TW)
GODEX BP520L (DT), 1.1.2 (en, en, cs, de, es, fr, hu, it, ja, ko, pl, pt, ru, tr, zh_CN, zh_TW)
GODEX BP520L, 1.1.2 (en, en, cs, de, es, fr, hu, it, ja, ko, pl, pt, ru, tr, zh_CN, zh_TW)
GODEX BP530L, 1.1.2 (en, en, cs, de, es, fr, hu, it, ja, ko, pl, pt, ru, tr, zh_CN, zh_TW)
GODEX DT2, 1.1.2 (en, en, cs, de, es, fr, hu, it, ja, ko, pl, pt, ru, tr, zh_CN, zh_TW)
GODEX DT2x, 1.1.2 (en, en, cs, de, es, fr, hu, it, ja, ko, pl, pt, ru, tr, zh_CN, zh_TW)
GODEX DT4, 1.1.2 (en, en, cs, de, es, fr, hu, it, ja, ko, pl, pt, ru, tr, zh_CN, zh_TW)
GODEX DT4C, 1.1.2 (en, en, cs, de, es, fr, hu, it, ja, ko, pl, pt, ru, tr, zh_CN, zh_TW)

Or Provide a PPD File: No file chosen

After adding the printer, Set default options window will open, where you can set the default printer settings:

Set Default Options for GODEX_RT860i

[General](#) [Label setup](#) [Printer setup](#) [Banners](#) [Policies](#)

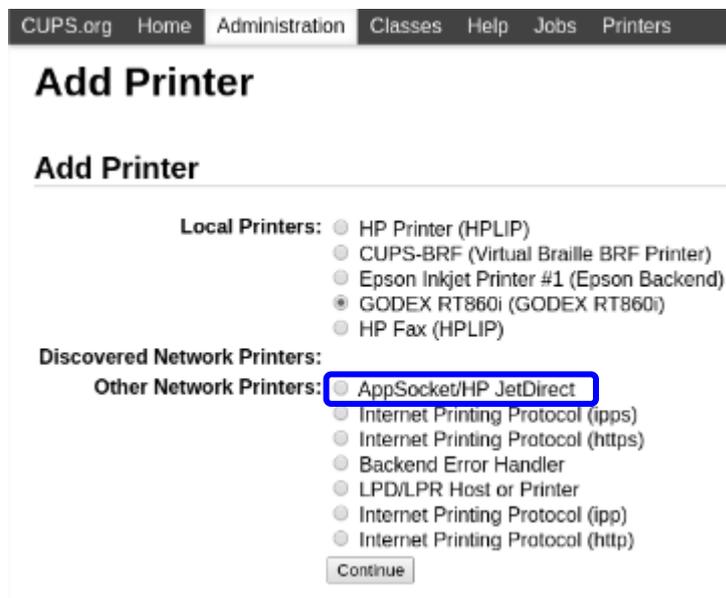
General

Media Size: 100x100mm

Darkness: 10

Adding TCP/IP connected Printer:

if you use IP connection, please select **AppSocket/HP JetDirect.**, other protocols may perform not stable.



The screenshot shows the 'Add Printer' page in the CUPS Administration interface. The 'Other Network Printers' section is expanded, and the 'AppSocket/HP JetDirect' option is selected and highlighted with a blue box. Other options include 'Internet Printing Protocol (ipp)', 'Internet Printing Protocol (https)', 'Backend Error Handler', 'LPD/LPR Host or Printer', 'Internet Printing Protocol (ipp)', and 'Internet Printing Protocol (http)'. A 'Continue' button is visible at the bottom of the list.

Please input the IP or hostname of the printer in the Connection field, please add `"/?waiteof=false"` to the end of the address (this will eliminate 5 s. timeout that some CUPS distributions have between labels):

Add Printer

Connection:

Examples:

```
http://hostname:631/ipp/  
http://hostname:631/ipp/port1
```

```
ipp://hostname/ipp/  
ipp://hostname/ipp/port1
```

```
lpd://hostname/queue
```

```
socket://hostname  
socket://hostname:9100
```

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

Please enter the name(s) of the printer to the fields:

Add Printer

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

Description: GODEX RT860i
(Human-readable description such as "HP LaserJet with Duplexer")

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

Connection: socket://192.168.1.4/?waiteof=false

Sharing: Share This Printer

Select Make:Godex and click Add Printer:

Add Printer

Name: Godex
Description: GODEX RT860i
Location:
Connection: socket://192.168.1.4/?waiteof=false
Sharing: Do Not Share This Printer

Make:
Gestetner
GODEX
Heidelberg
Hitachi
Honeywell
HP
IBM
Imagen
Imagistics
Infix

Or Provide a PPD File: No file chosen

Select the Printer model and click Add Printer:

Add Printer

Name: Godex
Description: GODEX RT860i
Location:
Connection: socket://192.168.1.4/?waiteof=false
Sharing: Do Not Share This Printer

Make: GODEX

Model: GODEX RT730x, 1.1.2 (en, en, cs, de, es, fr, hu, it, ja, ko, pl, pt, ru, tr, zh_CN, zh_TW)
GODEX RT823i, 1.1.2 (en, en, cs, de, es, fr, hu, it, ja, ko, pl, pt, ru, tr, zh_CN, zh_TW)
GODEX RT833i, 1.1.2 (en, en, cs, de, es, fr, hu, it, ja, ko, pl, pt, ru, tr, zh_CN, zh_TW)
GODEX RT860i, 1.1.2 (en, en, cs, de, es, fr, hu, it, ja, ko, pl, pt, ru, tr, zh_CN, zh_TW)
GODEX RT863i, 1.1.2 (en, en, cs, de, es, fr, hu, it, ja, ko, pl, pt, ru, tr, zh_CN, zh_TW)
GODEX ZX420, 1.1.2 (en, en, cs, de, es, fr, hu, it, ja, ko, pl, pt, ru, tr, zh_CN, zh_TW)
GODEX ZX420i, 1.1.2 (en, en, cs, de, es, fr, hu, it, ja, ko, pl, pt, ru, tr, zh_CN, zh_TW)
GODEX ZX430, 1.1.2 (en, en, cs, de, es, fr, hu, it, ja, ko, pl, pt, ru, tr, zh_CN, zh_TW)
GODEX ZX430i, 1.1.2 (en, en, cs, de, es, fr, hu, it, ja, ko, pl, pt, ru, tr, zh_CN, zh_TW)
GODEX ZX1200i, 1.1.2 (en, en, cs, de, es, fr, hu, it, ja, ko, pl, pt, ru, tr, zh_CN, zh_TW)

Or Provide a PPD File: No file chosen

After adding the printer, Set default options window will open, where you can set the default printer settings:



Set Default Options for GODEX_RT860i

[General](#) [Label setup](#) [Printer setup](#) [Banners](#) [Policies](#)

General

Media Size: 100x100mm ▼

Darkness: 10 ▼

Adding Godex to USB Quirks file:

In CUPS 1.6.4 and higher, you can optimise USB communication with adding Godex printers with parameters unidir and no-reattach to USB Quirks directory, the easiest way is to create a file: `"/usr/share/cups/usb/godex.usb-quirks"` with this content:

```
# All Godex devices  
0x195F unidir no-reattach
```

More information about the usb-quirks file (format and simple description) you can find in the original file, which is located: `"/usr/share/cups/usb/org.cups.usb-quirks"`.

Alternatively, if you are using USB connection, you can send the command **^XSET,USB SPEED,0** to the printer via GoDoctor from a Windows PC or through web interface, to configure the USB interface for use on Linux system.

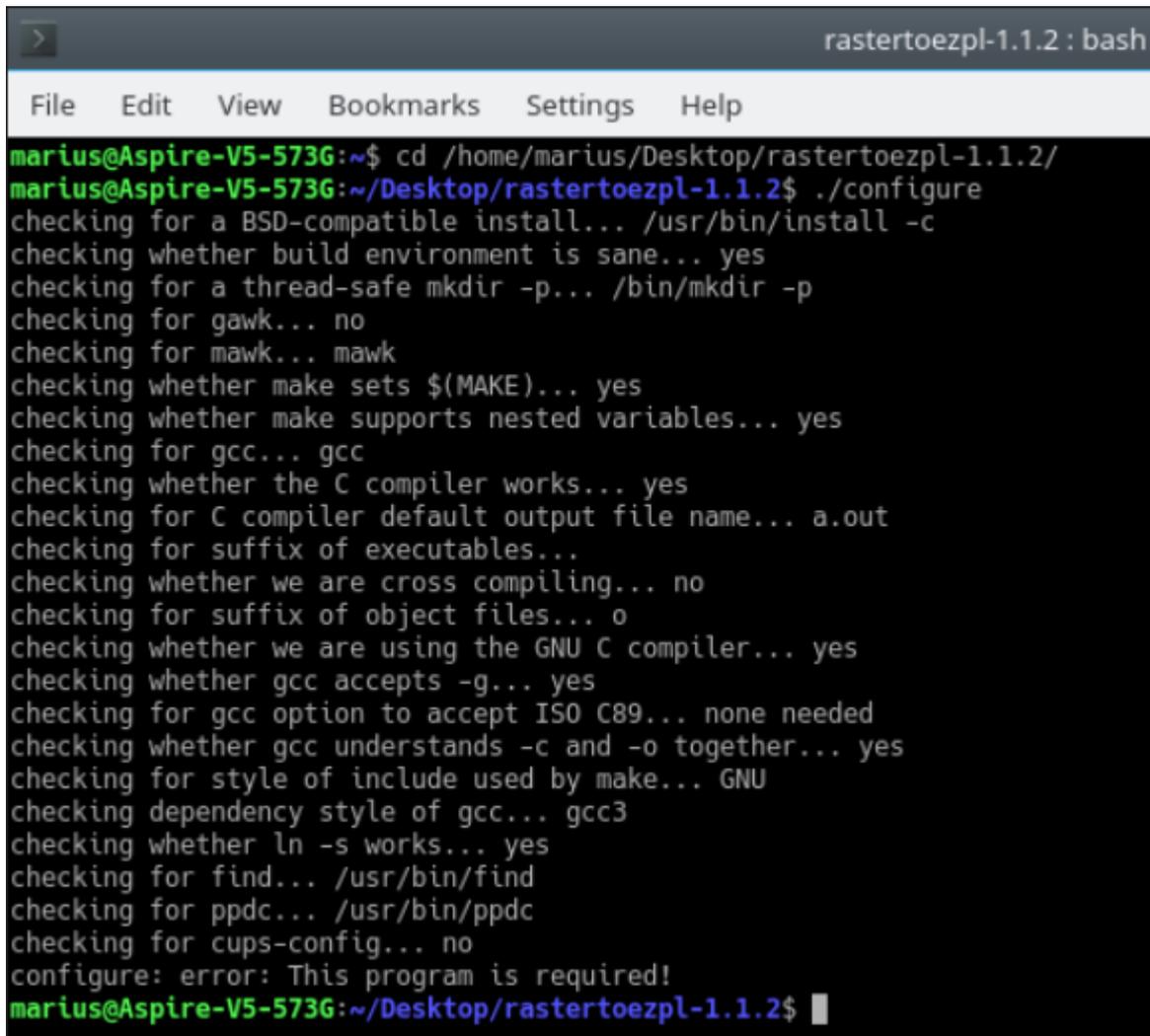
Troubleshooting (common issues during driver installation):

1. “checking for cups-config ... no” error message

If, after sending `./configure`, you get error message:

“checking for cups-config ... no”

“configure: error: This program is required!”



```
rastertoezpl-1.1.2 : bash
File Edit View Bookmarks Settings Help
marius@Aspire-V5-5736:~$ cd /home/marius/Desktop/rastertoezpl-1.1.2/
marius@Aspire-V5-5736:~/Desktop/rastertoezpl-1.1.2$ ./configure
checking for a BSD-compatible install... /usr/bin/install -c
checking whether build environment is sane... yes
checking for a thread-safe mkdir -p... /bin/mkdir -p
checking for gawk... no
checking for mawk... mawk
checking whether make sets $(MAKE)... yes
checking whether make supports nested variables... yes
checking for gcc... gcc
checking whether the C compiler works... yes
checking for C compiler default output file name... a.out
checking for suffix of executables...
checking whether we are cross compiling... no
checking for suffix of object files... o
checking whether we are using the GNU C compiler... yes
checking whether gcc accepts -g... yes
checking for gcc option to accept ISO C89... none needed
checking whether gcc understands -c and -o together... yes
checking for style of include used by make... GNU
checking dependency style of gcc... gcc3
checking whether ln -s works... yes
checking for find... /usr/bin/find
checking for ppc... /usr/bin/ppc
checking for cups-config... no
configure: error: This program is required!
marius@Aspire-V5-5736:~/Desktop/rastertoezpl-1.1.2$
```

It means that you don't have “cups-config” program installed on your system, which is often in develop packages. Please install it with a command and package name in compliance with your Linux distribution.

On Ubuntu, you can install it with “`sudo apt install libcups2-dev`” command:

```
marius@Aspire-V5-5736:~/Desktop/rastertoezpl-1.1.2$ sudo apt install libcups2-dev
```

2. Printer irresponsive when sending printjobs

If, when you send the printjob, nothing is printed, please make sure whether AppArmor (Linux kernel security module) is not blocking the new installed filter. For testing purposes, you can disable it, below are the commands for Ubuntu, they might be different for different distributions:

Check profiles:

```
"sudo cat /sys/kernel/security/apparmor/profiles"
```

Disable cupsd profile:

```
"sudo ln -s /etc/apparmor.d/usr.sbin.cupsd /etc/apparmor.d/disable"
```

```
"sudo apparmor_parser -R /etc/apparmor.d/usr.sbin.cupsd"
```

Check AppArmor status:

```
"sudo aa-status"
```

```
marius@Aspire-V5-5736:~/Desktop/ghostscript-9.23$ sudo cat /sys/kernel/security/apparmor/profiles
/usr/sbin/tcpdump (enforce)
/usr/sbin/cupsd (enforce)
/usr/sbin/cupsd//third_party (enforce)
/usr/lib/cups/backend/cups-pdf (enforce)
/usr/sbin/mysqld-akonadi (enforce)
/usr/sbin/mysqld-akonadi//usr/sbin/mysqld (enforce)
/usr/lib/connman/scripts/dhclient-script (enforce)
/usr/lib/NetworkManager/nm-dhcp-helper (enforce)
/usr/lib/NetworkManager/nm-dhcp-client.action (enforce)
/sbin/dhclient (enforce)
/usr/sbin/ippusbxd (enforce)
/usr/sbin/cups-browsed (enforce)
/usr/lib/snapd/snap-confine (enforce)
/usr/lib/snapd/snap-confine//snap_update_ns (enforce)
/usr/lib/snapd/snap-confine//mount-namespace-capture-helper (enforce)
marius@Aspire-V5-5736:~/Desktop/ghostscript-9.23$ sudo ln -s /etc/apparmor.d/usr.sbin.cupsd /etc/apparmor.d/disable
marius@Aspire-V5-5736:~/Desktop/ghostscript-9.23$ sudo apparmor_parser -R /etc/apparmor.d/usr.sbin.cupsd
marius@Aspire-V5-5736:~/Desktop/ghostscript-9.23$ sudo aa-status
apparmor module is loaded.
12 profiles are loaded.
12 profiles are in enforce mode.
 /sbin/dhclient
 /usr/lib/NetworkManager/nm-dhcp-client.action
 /usr/lib/NetworkManager/nm-dhcp-helper
 /usr/lib/connman/scripts/dhclient-script
 /usr/lib/snapd/snap-confine
 /usr/lib/snapd/snap-confine//mount-namespace-capture-helper
 /usr/lib/snapd/snap-confine//snap_update_ns
 /usr/sbin/cups-browsed
 /usr/sbin/ippusbxd
 /usr/sbin/mysqld-akonadi
 /usr/sbin/mysqld-akonadi//usr/sbin/mysqld
 /usr/sbin/tcpdump
0 profiles are in complain mode.
3 processes have profiles defined.
3 processes are in enforce mode.
 /sbin/dhclient (1349)
 /usr/sbin/cups-browsed (519)
 /usr/sbin/mysqld-akonadi//usr/sbin/mysqld (1175)
0 processes are in complain mode.
0 processes are unconfined but have a profile defined.
marius@Aspire-V5-5736:~/Desktop/ghostscript-9.23$ █
```

Note: Correct configuration of AppArmor is a responsibility of System Administrator and is not explained in this manual.