

Linux driver installation guide

Driver installation

Preperation

Unzip the driver package, and extract the 'ultracupsdrv' folder to a directory of your choosing

Installation

Terminal commands are coloured orange :

Compiling the driver on Ubuntu:

- Open a terminal, and Install developer tools
`sudo apt-get install build-essential checkinstall`
- Install libcups2-dev
`sudo apt-get install libcups2-dev`
- Install libcupsimage2-dev
`sudo apt-get install libcupsimage2-dev`
- Point the terminal to the 'ultracupsdrv' folder directory
- Clean the directory
`make clean`
- Compile the source
`make`
- Install the driver
`make install`

Compiling the driver on Fedora:

- Open a terminal with root access
- Install developer tools

```
yum groupinstall "Development Tools"
```

- Install make

```
yum install make
```
- Install cups development tools

```
yum install "cups-devel"
```
- Point the terminal to the 'ultracupsdrv' folder directory
- Clean the directory

```
make clean
```
- Compile the source

```
make
```
- Install the driver

```
make install
```

Compiling the driver on OpenSUSE:

- Open a terminal and get root
- Install GCC

```
zypper install gcc
```
- Install cups-devel

```
zypper install cups-devel
```
- Install make

```
zypper install make
```
- Point the terminal to the 'ultracupsdrv' folder directory
- Clean the directory

```
make clean
```

- Compile the source

```
make
```

- Install the driver

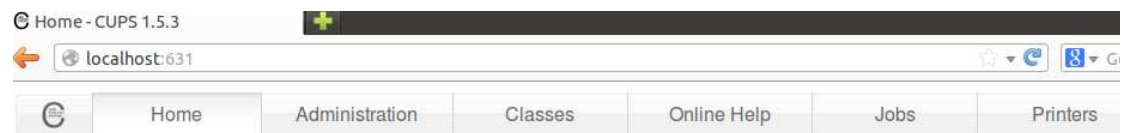
```
make install
```

After the driver is installed, connect the printer hardware to the computer; the driver should automatically detect it, and add it to the installed printers list in the CUPS interface (see Driver Usage)

Driver Usage

Access driver settings

Open the browser and go to: localhost:631



CUPS 1.5.3

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

Click on the printers tab to see a list of installed printers

Queue Name	Description	Location	Make and Model	Status
Brother_HL-2250DN_series:1	Brother HL-2250DN series		Local Raw Printer	Idle
Fax:5	Fax		Local Raw Printer	Idle
Foxit_Reader_PDF_Printer:4	Foxit Reader PDF Printer		Local Raw Printer	Idle
Magocard_Rio_Pro_(V2):6	Magocard Rio Pro (V2) (Copy 1)		Local Raw Printer	Paused
Magocard_Rio_Pro_(V2):9	Magocard Rio Pro (V2)		Local Raw Printer	Idle
Magocard_Rio_Pro_(V2)_(Copy_1):6	Magocard Rio Pro (V2) (Copy 1)		Local Raw Printer	Idle
Magocard_Rio_Pro_(V2)_(Copy_2):7	Magocard Rio Pro (V2) (Copy 2)		Local Raw Printer	Idle
Microsoft_XPS_Document_Writer:3	Microsoft XPS Document Writer		Local Raw Printer	Idle
Rio-Pro	Magocard Rio Pro	ubuntu	Magocard Rio Pro	Idle
Send_To_OneNote_2010:2	Send To OneNote 2010		Local Raw Printer	Idle

Select a magicard printer to view the details

Rio-Pro (Idle, Accepting Jobs, Not Shared)

Maintenance Administration

Description: Magocard Rio Pro

Location: ubuntu

Driver: Magocard Rio Pro (color, 2-sided printing)

Connection: usb://Magocard/Rio%20Pro?serial=53C3452

Defaults: job-sheets=none, none media=om_1-xcr80_54.33x86.01mm sides=one-sided

Jobs

Search in Rio-Pro:

Show Completed Jobs Show All Jobs

No jobs.

Click on the "administration" listbox, and select "Set default options" to access driver settings

Set Default Options for Rio-Pro

[General](#) [Printer](#) [Card Front](#) [Card Back](#) [Advanced](#) [Banners](#) [Policies](#)

General

Media Size:

Driver Settings

General tab

General

Media Size:

Media Size – Select a predefined card dimension

Printer tab

Printer

Duplex printing:

Duplex printing – determines if the image should be printed on the front side of the card, the back side of the card, or, if a two page document is printed, both sides of the card.

Card Front / Card Back tab

Card Front

Colour format: Colour with resin black (YMCK) ▾

Black resin options: All black is printed with K ▾

Overcoat: Print overcoat layer ▾

HoloKote(R): Print with HoloKote(R) image ▾

HoloPatch(R): Print without HoloPatch(R) ▾

Rotation: 0 degrees ▾

Overcoat holes: No hole ▾

HoloKote(R) Type: UltraSecure(R) Key ▾

HoloKote(R) Rotation: No rotation ▾

Colour format – determines the colour composition of the printed image, the printer can use the colour panels of the printer ribbon to make coloured cards (YMC), any black (such as text) can be printed using the black resin ribbon panel (K)

Selecting YMC will print everything in colour, YMCK will print everything in colour and print black using the dedicated resin panel, selecting K will print the image without using the colour panels of the ribbon; resulting in a black and white print

Resin black options – controls how the colour black is printed, selecting K means that black will be printed using the dedicated resin black panel, selecting YMC will mean that black is printed by combining the YMC panels to make the darkest colour possible.

Overcoat – controls if a layer of translucent protective overcoat should be added to the card at the end of the image printing process.

HoloKote – controls if a security watermark should be burned into the Overcoat, this can be toggled on and off

HoloPatch – controls if a HoloKote panel should be printed in HoloPatch format

Rotation – controls image rotation e.g. setting to 180 means that the printer will print a given image upside down.

Overcoat holes – controls if Overcoat should be omitted from certain areas of the card, 4 presets are available that correspond with common magstripe positions

HoloKote type – allows the selection of preset overcoat watermark images

HoloKote rotation – controls the rotation of the Overcoat watermark.

Advanced

Advanced

Colour correction:	None
Resin quality:	Default
Sharpness:	0
Status polling:	Enable
Printhead Power (YMC):	50
Printhead Power (Black resin):	50
Printhead Power (Overcoat):	50
Printhead Position:	0
Image Position Start:	0
Image Position End:	0
Rewritable Cards (Erase):	Do not erase before print
Erase power (Start):	50
Erase power (Start):	50
Write power:	50

Colour correction – algorithms that adjust the colour quality of the printed image

Resin quality – controls speed, and therefore quality, of resin printing, faster will result in pale but fast prints, and slow will result in dark but slow prints.

Sharpness – controls the clarity of the printed image.

Status polling – controls if the driver periodically communicates with the connected printer to retrieve status information

Printhead power (YMC / K / Overcoat) – controls the strength used to print while using the corresponding ribbon panel type, more power will result in darker results; excessive power can break the ribbon.

Printhead position – controls the vertical placement of the printed image on the card, adjust to add / remove white borders from these areas

Image position start / end – controls the placement of the printed image at the start / end of the card, adjust to add / remove white borders to these areas

Rewritable cards – controls if the printer should erase rewritable cards before attempting to print

Erase / write power – controls the strength used to perform these operations, adjust so that cards are effectively erased and writted.

Printing

To print, simply use the printing functionality from your image application (file > print / ctrl + P), select the magicard printer as the target printer, and press print.

