

- <http://github.com/dpavlin/Printer-EVOLIS>
- <http://www.evolis.com/eng/Drivers-Support/Product-support/Dualys-3>
- <http://git.rot13.org/?p=evolispriinter.git>

t=0x9cd5018 [0,0]

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## Tehnickal test card:

t=0x9cd4eb8

cell=0x9cd5018 [0,0]	cell=0x9cd50f8 [0,1]
Firmware	0821 f:200 E
cell=0x9cd52b8 [1,0]	cell=0x9cd53e8 [1,1]
X-Y-Smart Offsets	16 - 20 - 409
cell=0x9cd5648 [2,0]	cell=0x9cd5778 [2,1]
Printed lines	994 L / 636 W

PageSize[243.84 155.52]

## Upstream CUPS support

- <http://www.evolis.com/eng/content/download/1521/12335/file/evolispriinter-2.2-1.src.rpm>
- <http://www.evolis.com/eng/content/download/1521/12335/file/evolispriinter-3.0.tar.gz>

## Programming guide

- [Programming\\_Guide\\_A5013\\_RevE.pdf](#)

## Encode the three tracks

```
Ss // Sequence Start
Pmc;h // Set the coercivity to Hico
Dm;1;EVOLISPEBBLE // Download EVOLISPEBBLE on track 1
Dm;2;1234567890 // Download 1234567890 on track 2
Dm;3;0987654321 // Download 9876543210 on track 3
Se // Sequence eject
```

## Use the internal font and rotate them

```
Wcb ;k // Clear Monochrome Panel
Ss // Sequence Start
Pwr ;0 // Set the text orientation to 0
Wt ;100 ;300 ;0 ;10 ;Test rotations // Write the Text "Test Rotation"
Wt ;500 ;250 ;0 ;50 ;0 // Write the text "0"
Pwr;90 // Set the Text orientation to zero
Wt ;500 ;250 ;0 ;50 ;90 // Write the text "90"
Pwr;180 // Set the Text orientation to 180
Wt ;500 ;250 ;0 ;50 ;180 // Write the text "180"
Pwr;270 // Set the Text orientation to 270
Wt ;500 ;250 ;0 ;50 ;270 // // Write the text "270"
Se // Sequence eject
```

## Print in an image in color

```
Pr;ymcko // Parameter ribbon ymcko
Pc;a;=;10 // Set the contrast to 10 for all panel
Pl;a;=;10 // Set the luminosity to 10 for all panel
Ps;k;=;0 // Set the Speed for black panel to 0
Ss // Sequence start
Db;y;32;xxxxxxxxxxxxxxxxxxx // Download the data for yellow pannel
Db;m;32;xxxxxxxxxxxxxxxxxxx // Download the data for magenta pannel
Db;c;32;xxxxxxxxxxxxxxxxxxx // Download the data for cyan pannel
Db;o;32;xxxxxxxxxxxxxxxxxxx // Download the data for overlay pannel
Se
```

## Network administration

t=0x9cd7db8

Escape sequence	Syntax	Arguments
Read the printer's IP address	Rip	
Set the IP address or DHCP	Rip;value	IP address in xxx.yyy.ttt.uuu format or dhcp
Read Hostname	Rehn	
Set Hostname	Pehn;value	Hostname (16 characters max.)
Read Subnet mask	Renm	
Set Subnet mask	Penm;value	Subnet mask in xxx.yyy.ttt.uuu format
Read the gateway address	Regw	

cell=0x9cda2b8 [8,0]	cell=0x9cda470 [8,1]	cell=0x9cda558 [8,2]
Set the gateway address	Pegw;value	Gateway address in xxx.yyy.ttt.uuu format
cell=0x9cda7c0 [9,0]	cell=0x9cda9e0 [9,1]	cell=0x9cdaac0 [9,2]
Read the WINS server address	Rews	
cell=0x9cdac50 [10,0]	cell=0x9cdae60 [10,1]	cell=0x9cdf40 [10,2]
Read the WINS server address	Pews;value	WINS server address in xxx.yyy.ttt.uuu format

## Debian

- <http://debian.rot13.org/binary/>
- <http://debian.rot13.org/source/>

## apt-cache show evolispriener

```
Package: evolispriener
Status: install ok installed
Priority: extra
Section: checkinstall
Installed-Size: 160
Maintainer: root@klin
Architecture: i386
Version: 3.0-2
Provides: evolispriener
Depends: cups
Description: New Pebble Card Printer CUPS driver
```

## Compilation

```
apt-get install libcups2-dev libcupsimage2-dev
make
sudo checkinstall
```

## dmesg

```
[88415.288187] usb 2-4.3: new full speed USB device using ehci_hcd and address 10
[88415.381054] usb 2-4.3: New USB device found, idVendor=058f, idProduct=9254
[88415.381058] usb 2-4.3: New USB device strings: Mfr=1, Product=2, SerialNumber=0
[88415.381061] usb 2-4.3: Product: Generic USB Hub
[88415.381063] usb 2-4.3: Manufacturer: ALCOR
[88415.381149] usb 2-4.3: configuration #1 chosen from 1 choice
[88415.381333] hub 2-4.3:1.0: USB hub found
[88415.381555] hub 2-4.3:1.0: 4 ports detected
[88415.652178] usb 2-4.3.1: new full speed USB device using ehci_hcd and address 11
[88415.745545] usb 2-4.3.1: New USB device found, idVendor=0f49, idProduct=0400
[88415.745549] usb 2-4.3.1: New USB device strings: Mfr=4, Product=18, SerialNumber=0
[88415.745552] usb 2-4.3.1: Product: Evolis Dualys
[88415.745554] usb 2-4.3.1: Manufacturer: EVOLIS
[88415.745639] usb 2-4.3.1: configuration #1 chosen from 1 choice
[88415.747080] usbblp0: USB Bidirectional printer dev 11 if 0 alt 0 proto 2 vid 0x0F49 pid 0x0400

[90082.139083] rastertoevolispriener[8692]: segfault at 0 ip b7ddf657 sp bfd60bc8 error 6 in libc-2.9.so
[90122.522505] usb 2-4.3.1: USB disconnect, address 11
[90122.522690] usbblp0: removed
[90133.216207] usb 2-4.3.1: new full speed USB device using ehci_hcd and address 13
```

```

[90133.309579] usb 2-4.3.1: New USB device found, idVendor=0f49, idProduct=0400
[90133.309582] usb 2-4.3.1: New USB device strings: Mfr=4, Product=18, SerialNumber=0
[90133.309585] usb 2-4.3.1: Product: Evolis Dualys
[90133.309587] usb 2-4.3.1: Manufacturer: EVOLIS
[90133.309676] usb 2-4.3.1: configuration #1 chosen from 1 choice
[90133.311236] usbblp0: USB Bidirectional printer dev 13 if 0 alt 0 proto 2 vid 0x0F49 pid 0x0400
[94350.140355] gs[27363]: segfault at 197 ip b79fb9a6 sp bf9bf070 error 6 in libgs.so.8.70[b790d0]
[94393.919251] gs[27502]: segfault at 197 ip b79be9a6 sp bfefe230 error 6 in libgs.so.8.70[b78d00]
[94459.139970] gs[27726]: segfault at 197 ip b78459a6 sp bfdbcb90 error 6 in libgs.so.8.70[b77570]

```

## lsusb

Bus 002 Device 013: ID 0f49:0400

Device Descriptor:

```

bLength          18
bDescriptorType  1
bcdUSB           1.00
bDeviceClass     0 (Defined at Interface level)
bDeviceSubClass  0
bDeviceProtocol  0
bMaxPacketSize0 8
idVendor         0x0f49
idProduct        0x0400
bcdDevice        6.02
iManufacturer    4  EVOLIS
iProduct         18  Evolis Dualys
iSerial          0
bNumConfigurations 1

```

Configuration Descriptor:

```

bLength          9
bDescriptorType  2
wTotalLength     32
bNumInterfaces   1
bConfigurationValue 1
iConfiguration   52  Standard Configuration
bmAttributes     0x40
    (Missing must-be-set bit!)
    Self Powered
MaxPower         0mA

```

Interface Descriptor:

```

bLength          9
bDescriptorType  4
bInterfaceNumber 0
bAlternateSetting 0
bNumEndpoints   2
bInterfaceClass  7  Printer
bInterfaceSubClass 1  Printer
bInterfaceProtocol 2  Bidirectional
iInterface       98  Printer Interface

```

Endpoint Descriptor:

```

bLength          7
bDescriptorType  5
bEndpointAddress 0x81  EP 1 IN
bmAttributes     2
    Transfer Type  Bulk
    Synch Type     None
    Usage Type     Data
wMaxPacketSize   0x0040  1x 64 bytes
bInterval        0

```

Endpoint Descriptor:

```

bLength          7
bDescriptorType  5

```

```

bEndpointAddress      0x02  EP 2 OUT
bmAttributes          2
  Transfer Type       Bulk
  Synch Type          None
  Usage Type          Data
wMaxPacketSize        0x0040  1x 64 bytes
bInterval             0
Device Status:       0x0001
  Self Powered

```

# CUPS

## printer options

```

dpavlin@klin:~$ lpoptions -p EVOLIS_Dualys -l
ColorModel/Output Mode: *RGB
PageSize/Media Size: *Card
Collate/Collate: *True False
MediaType/Media Type: *Blank
InkType/Ink Type: YMCKO YMCKOS YMCKOK KO *Black Blue Gold Green Red Silver White Scratch BlackWax
Duplex/Two-sided Printing: None *DuplexNoTumble
Brightness/Luminosity: 0 1 2 3 4 5 6 7 8 9 *10 11 12 13 14 15 16 17 18 19 20
Contrast/Contrast: 0 1 2 3 4 5 6 7 8 9 *10 11 12 13 14 15 16 17 18 19 20
BlackIn/Black Panel : *N Y
TreatmentK/Effect: *G L
SensibilityK/Intensity black panel: 0 1 2 3 4 5 6 7 8 9 *10 11 12 13 14 15 16 17 18 19 20
OverlayPannel/Define : *FO SCI SCA MS NO
SensibilityO/Intensity overlay panel: 0 1 2 3 4 5 6 7 8 9 *10 11 12 13 14 15 16 17 18 19 20
BrightnessV/Luminosity: 0 1 2 3 4 5 6 7 8 9 *10 11 12 13 14 15 16 17 18 19 20
ContrastV/Contrast: 0 1 2 3 4 5 6 7 8 9 *10 11 12 13 14 15 16 17 18 19 20
BlackInV/Black Back Panel : *N Y
TreatmentKV/Effect: *G L
SensibilityKV/Intensity black panel: 0 1 2 3 4 5 6 7 8 9 *10 11 12 13 14 15 16 17 18 19 20
OverlayBackPannel/Define : FO SCI SCA MS NO
SensibilityOV/Intensity Overlay Back Panel: 0 1 2 3 4 5 6 7 8 9 *10 11 12 13 14 15 16 17 18 19 20
EjectCard/Specific Action : *None iSmart iCtless Eject Reject Test TestTech Clean
Coercivity/Coercivity: *None Hico Loco JIS
Track1/Track1 : *1 2 3 4 5 8 6 7
Track2/Track2 : 1 *2 3 4 5 8 6 7
Track3/Track3 : 1 2 *3 4 5 8 6 7

```

## duplex printing

```

dpavlin@klin:~$ lpoptions -p EVOLIS_Dualys -l | grep Duplex
Duplex/Two-sided Printing: None *DuplexNoTumble

```

```

dpavlin@klin:~/klin/evoliss-dualys-3$ lpr -P dualys3 -o Duplex=DuplexNoTumble out/200900000042.pri

```

## cups raster

- <http://www.easysw.com/~mike/rasterview/index.html>

```

sudo apt-get install libfltk1.1-dev libcups2-dev libcupsimage2-dev

```

## **gs cups rasterizator**

```
/usr/bin/gs -dQUIET -dPARANOIDSAFER -dNOPAUSE -dBATCH -sDEVICE=cups -sstdout=%stderr -sOutputFile
```

## **evolis rasterizator**

```
/usr/lib/cups/filter/rastertoevolvis 42 dpavlin foobar 0 Duplex=DuplexNoTumble duplex.ras > foo.ev
```