



EGPV-1101 SERIES

M.2 to Single HDMI or DVI-D Module

M.2 to Single/Dual Channel LVDS Module

Driver Installation Guide

Rev 2.0

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Revision History

Revision	Date	Description
1.0	2019/1/15	Initial Release
2.0	2020/8/04	Linux Driver update

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Overview

EGPV-1101 driver can support the following OS.

- Windows: 10 32/64bit
- Linux: kernel 3.13- 5.x (Provide driver source code)

Linux Driver description:

- v1.2.5.1_20181228

Set EGPV-1101 as a primary or secondary adapter display.

Ubuntu 16.04 / Fedora 27

Set EGPV-1101 as a primary display adapter.

CentOS 7.4 / CentOS7.5 / Debian8 / Ubuntu14.04

- Innodisk-1.3.1.1-CentOS

Support CentOS7.7 , CentOS7.8 , CentOS8.0 , CentOS8.1

- Innodisk-1.3.1.1-kernel_4_0+

Support Kernel 4.x

- Innodisk-1.4.0.1-kernel_5_0+(new)

Support Kernel 5.x

Remark:

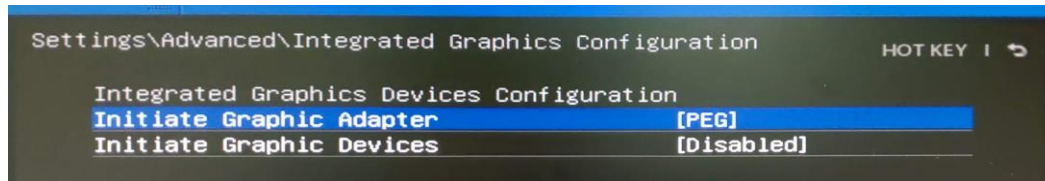
For LVDS Panel display output, customized BIOS and Windows / Linux drivers are required.

1. Windows

1.1. Single Display: EGPV-1101 only

1.1.1. BIOS Setting

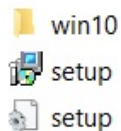
Change “Initiate Graphic Adapter” to external display module.
Disable on board GPU.



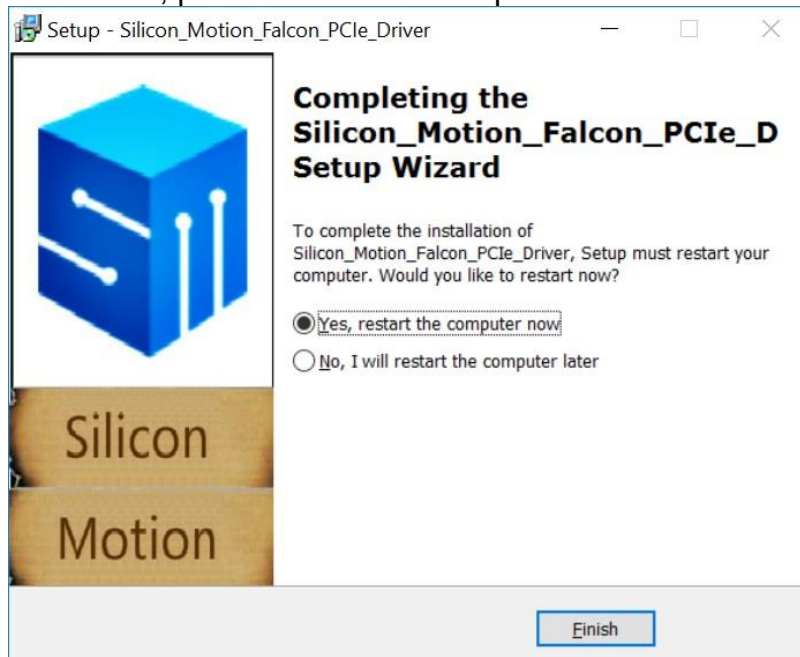
NOTE: Different BIOS may have different name of the setting.

1.1.2. Install Driver

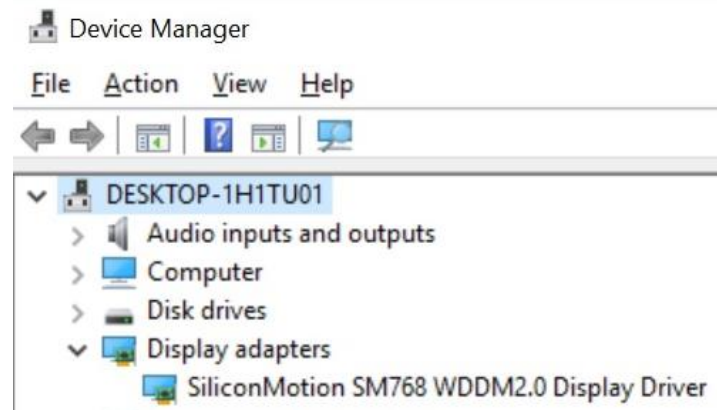
Open the EGPV-1101 Windows driver then click “setup.exe”



After finish, please restart the computer.

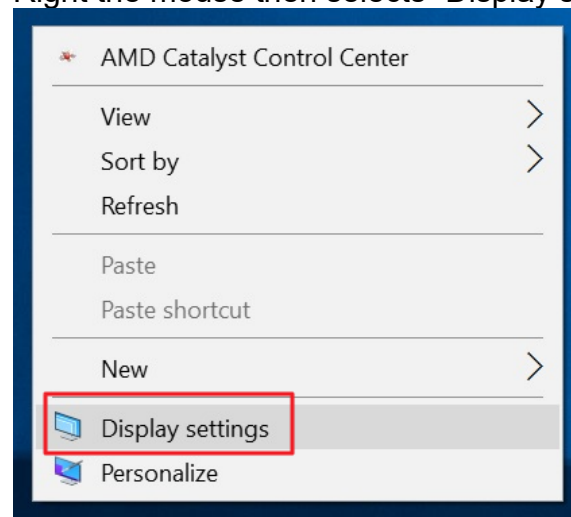


Check SM768 device is appeared in device manager.

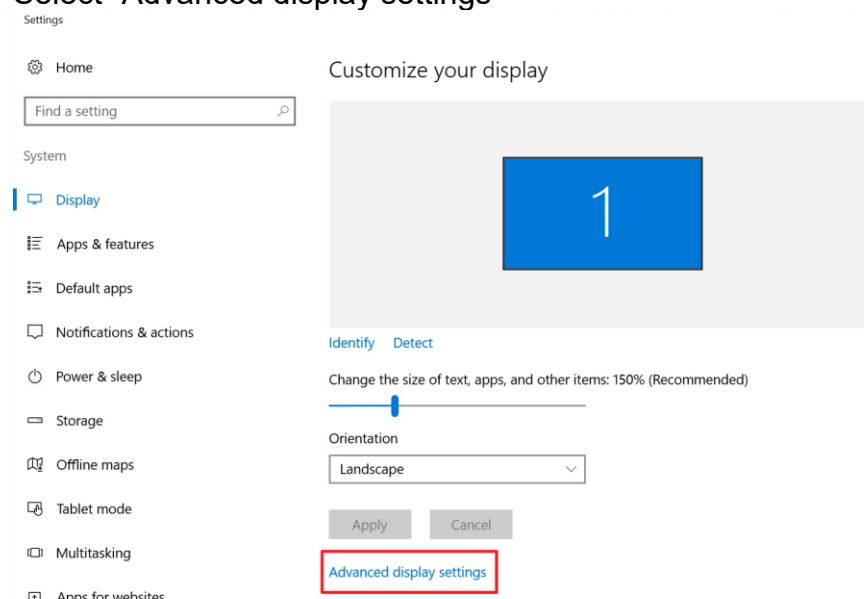


1.1.3. Modify Resolution

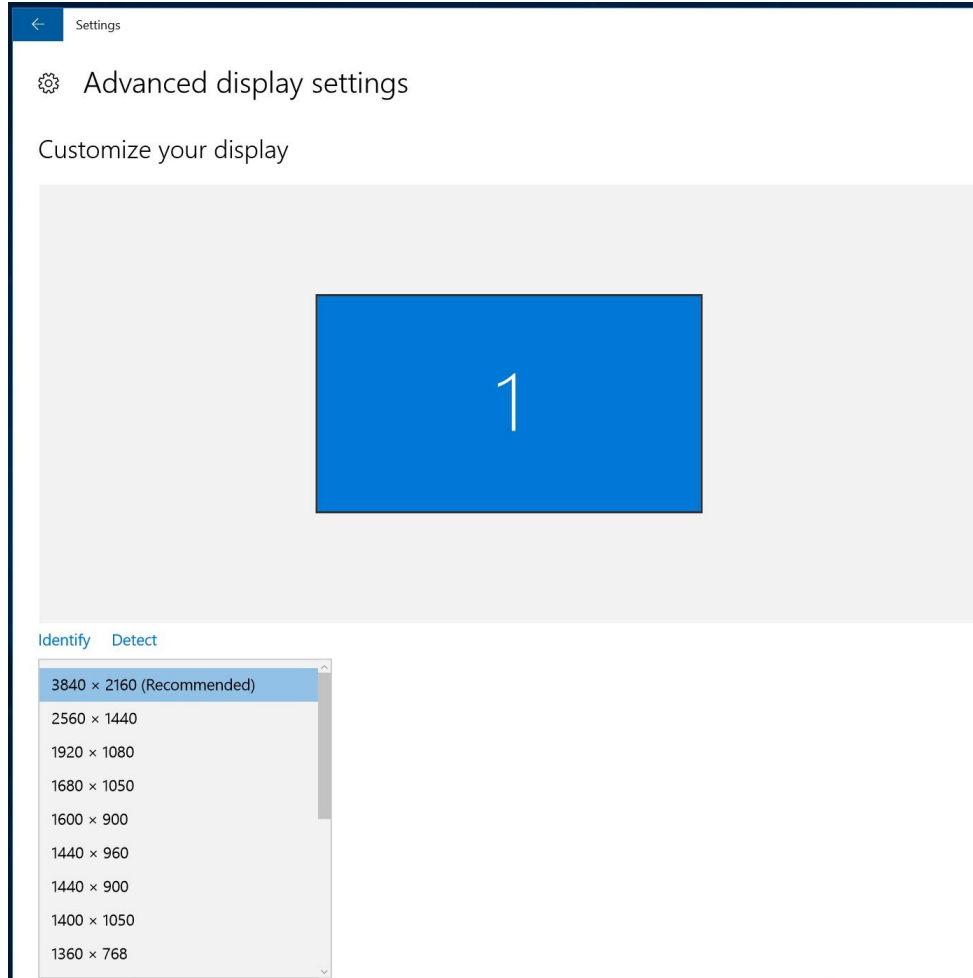
Right the mouse then selects “Display settings”



Select “Advanced display settings”



Select the HDMI or DVI-D resolution.

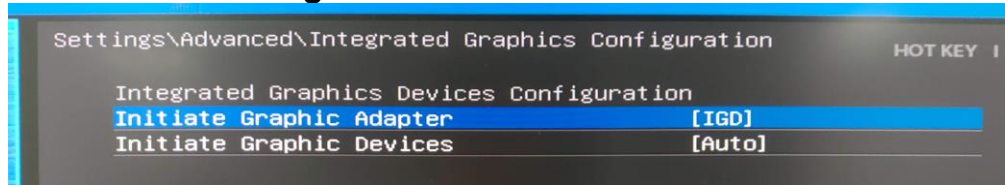


If use LVDS, the resolution is fixed.



1.2. Dual Display: EGPV-1101 + Onboard GPU

1.2.1. BIOS Setting



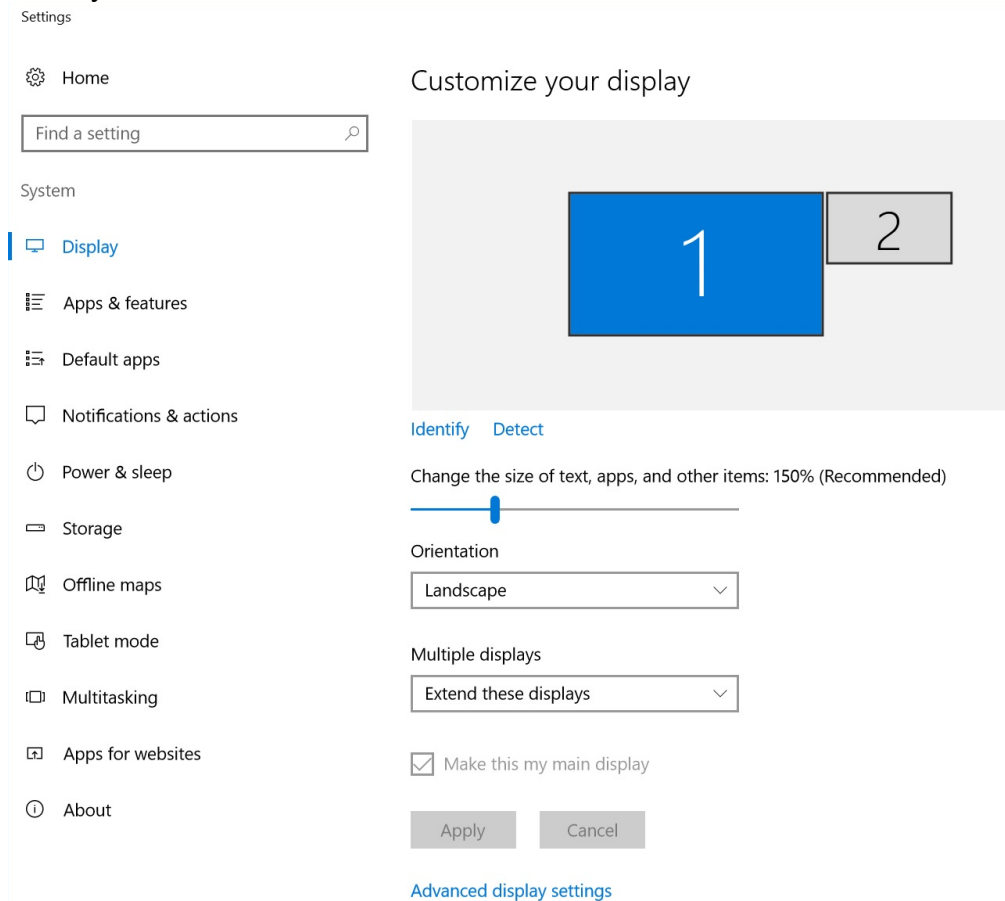
1.2.2. Install Driver

Please refer the 1.1.2.

1.2.3. Modify Resolution

Please refer the 1.1.3.

Click “Identify” can check which monitor is 1 or 2.
Then you can set the resolution for the monitor.



On board GPU (HDMI) + EGPV-1101(HDMI)



On board GPU (HDMI) + EGPV-1101(LVDS)



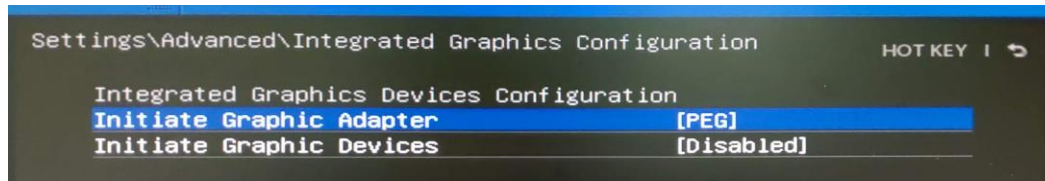
2. Linux

Here we use Ubuntu 18.04 for example.

2.1. Single Display: EGPV-1101 only

2.1.1. BIOS Setting

Change “Initiate Graphic Adapter” to external display module.
Disable on board GPU.



NOTE: Different BIOS may have different name of the setting.

2.1.2. Install Driver (HDMI)

Use root permission to install the driver.

Please follow the steps to compile the driver source code. After “make” command, the driver will be installed at the same time.

#cd Driver folder

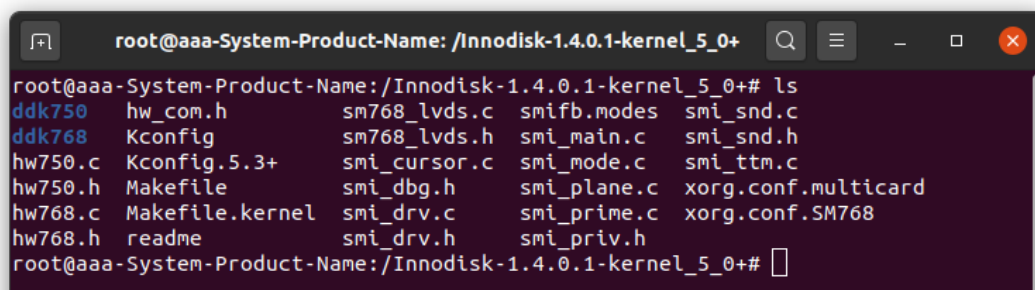


Figure 12

#make clean

#make

#reboot

2.1.3. Install Driver (LVDS)

#make clean

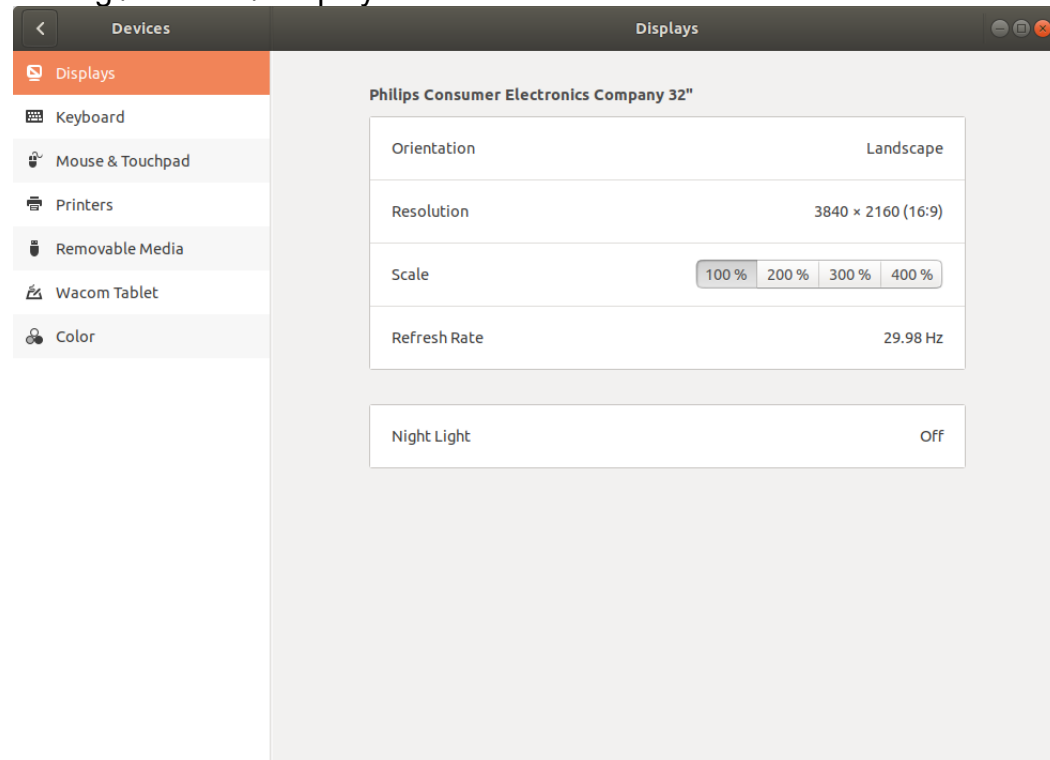
#make lvds=1

#cp smifb.modes /etc/

#reboot

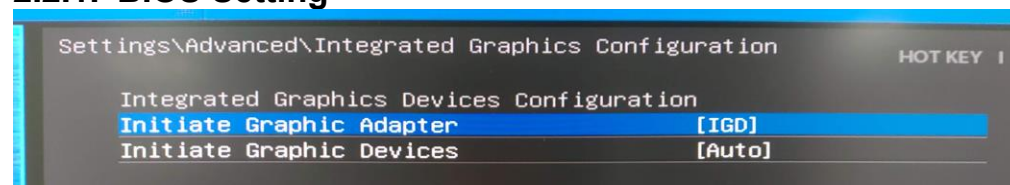
2.1.4. Modify Resolution

Setting / Devices/ Display



2.2. Multiple card Display: EGPV-1101 + Onboard GPU

2.2.1. BIOS Setting



2.2.2. Install Driver (HDMI)

Use root permission to install the driver.

Please follow the steps to compile the driver source code. After “make” command, the driver will be installed at the same time.

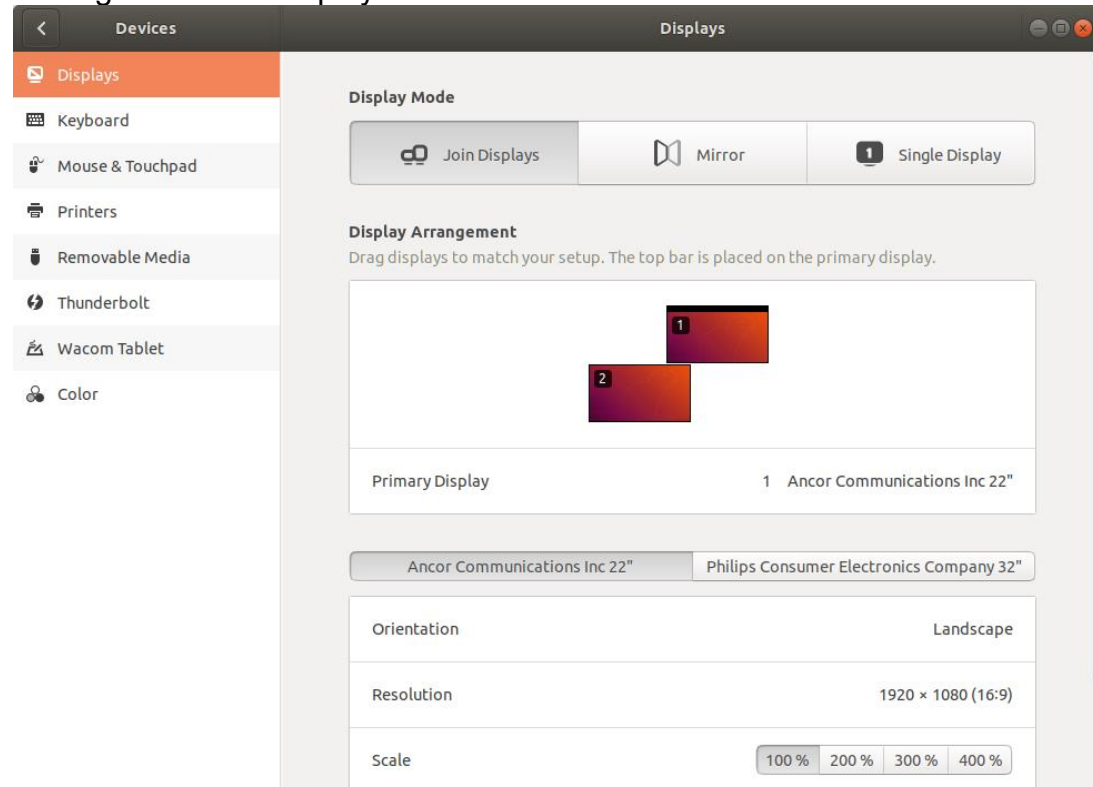
```
#make clean
#make prime=1
#cp xorg.conf.multicard /etc/X11/xorg.conf
#reboot
```

2.2.3. Install Driver (LVDS)

```
#make clean
#make prime=1 lvds=1
#cp smifb.modes /etc/
#reboot
```

2.2.4. Modify Resolution

Setting / Devices/ Display



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August 10, 2020