

RoBoard RB-100&110 Linux Display Driver update for 8.9inch panel

V 1.0, Jul 2010

Requirement

- ◆ We use Ubuntu 9.0.4 for example
- ◆ RoBoard RB-100 and/or RB-110
- ◆ VGA card with updated BIOS
- ◆ Xorg.conf & display driver file

Please download both files from

http://www.roboard.com/files/rp-089/XGI_Z9S_R2_Xorg.zip

http://www.roboard.com/files/rp-089/PDX089-T_Adjusted_Xorg.conf.zip

Step 1.

- Boot into Ubuntu 9.0.4 on RoBoard. Ubuntu will runs only in“text mode”.

```
Boot from (hd0,0) ext3 d227c701-7e59-4ea8-8ddc-b1f5fa9d0598
Starting up ...
[ 0.000000] CPU: vendor_id 'Vortex86 SoC' unknown, using generic i
[ 0.000000] CPU: Your system may be unstable.
Loading, please wait...
modprobe: FATAL: Could not load /lib/nmodules/2.6.29.1-vortex86dx/nodu
such file or directory

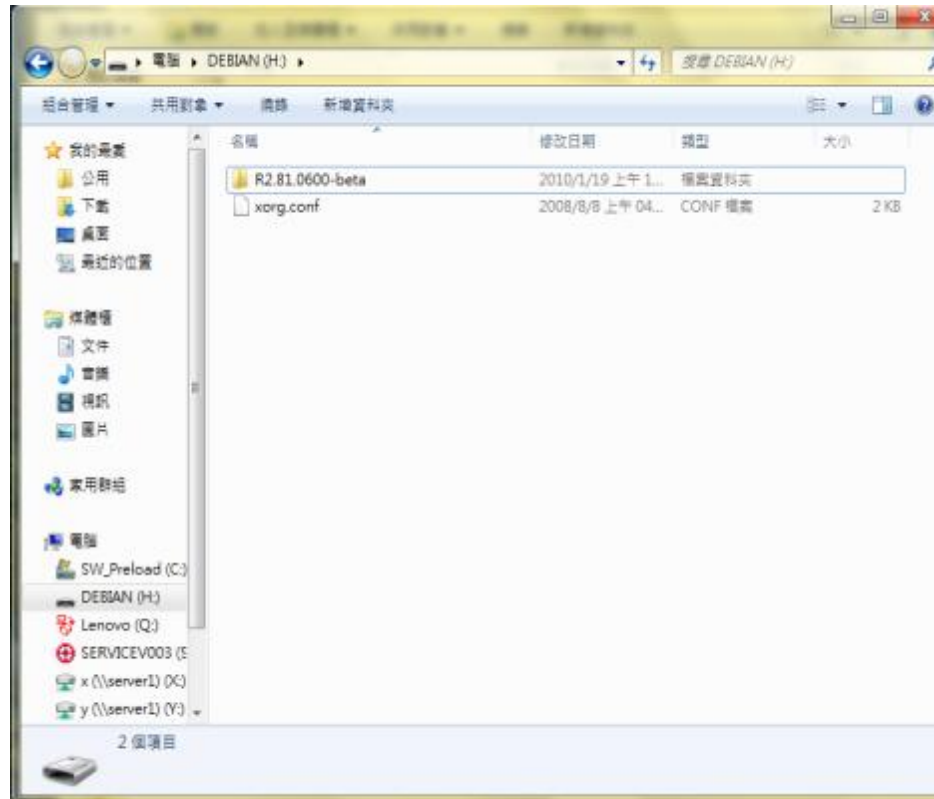
usplash: Setting mode 800x600 failed
usplash: Setting mode 640x480 failed
screen init failed
19+0 records in
19+0 records out
kinit: nane_to_dev_t(/dev/disk/by-uuid/f50a29a2-d602-499a-9547-799e35f
ev(3,2)
Cannot write /sys/power/resume (no software suspend kernel support?)
kinit: No resume image, doing normal boot...

Ubuntu 9.04 andrew-laptop tty1

andrew-laptop login: _
```

Step 2.

- Copy Ubuntu display driver and xorg.conf into USB disk and plug it into your RoBoard. The xorg.conf is fit for the 8.9 inches panel



Step 3.

- Mount the USB disk on the directory “mnt”

```
http://help.ubuntu.com/  
andrew@andrew-laptop:~$ sudo -i  
[sudo] password for andrew:  
Sorry, try again.  
[sudo] password for andrew:  
root@andrew-laptop:~# [ 295.680785] sd 1:0:0:0: [sda] As  
te through  
[ 295.688704] sd 1:0:0:0: [sda] Assuming drive cache: wr  
  
root@andrew-laptop:~# mount /dev/sda1 /mnt
```

Step 4.

- Type “X -configure”

```
description terms for each program are describ  
l files in /usr/share/doc/*/copyright.  
  
nes with ABSOLUTELY NO WARRANTY, to the extent p  
e law.  
  
official Ubuntu documentation, please visit:  
p.ubuntu.com/  
andrew-laptop:~$ sudo -i  
password for andrew:  
andrew-laptop:~# mount /dev/sda1 /mnt  
andrew-laptop:~# X -configure
```

Step 5.

- Go to the display driver directory

```
Please check your config if the mouse is still not
operational, as by default Xorg tries to autodetect
the protocol.

Your xorg.conf file is /root/xorg.conf.new

To test the server, run 'X -config /root/xorg.conf.new'

ldxSigGiveUp: Closing log
root@andrew-laptop:~# cd /mnt/R2.81.0600-beta/ia32/xgi
ipkg_Xorg8_i386/
xgi_xg27_x86_xorg8_2_81_0600.run
ipkg_Xorg8_i386.tgz
root@andrew-laptop:~# cd /mnt/R2.81.0600-beta/ia32/xgipkg_Xorg8_i386/xgipkg_Xorg
i386
root@andrew-laptop:/mnt/R2.81.0600-beta/ia32/xgipkg_Xorg8_i386/xgipkg_Xorg8_i386
-
```


Step 6.

- Type “sh install_ubuntu.sh” to install the display driver
 - Note: Choose the install file to fit your Linux version

```
Cards.xgi          pcitable_Freebsd.xgi  xg
Cards.xgi.suse     pcitable.xgi          xg
Identity_21.xgi    readme.txt            xg
Identity_27.xgi    removemodes.sh       xg
Identity_Freebsd.xgi  uninstall.sh         xg
Identity.xgi       Vendor.xgi            xg
install_nor.sh     version              xg
install_opensuse.sh  xgicfg_Freebsd.plx  xg
install.sh         xgicfg_mandrake.plx
root@andreu-laptop:/mnt/R2.81.0600-beta/ia32/
# sh install_ubuntu.sh_
```


Step 8.

- Ubuntu display driver is installed completely.

```
XGI Linux driver installation for package 2.81.0600
```

```
ubuntu
```

```
Driver xgiz_drv.so copy to /usr/lib/xorg/modules/drivers done.
```

```
/etc/X11/.xorg.conf .xgi
```

```
Modify /etc/X11/xorg.conf ...
```

```
Replace device "Card0" with "XGIGraphic"
```

```
X Configure file was updated.
```

```
root@andrew-laptop:/mnt/R2.81.0600-beta/ia32/xgipkg_Xorg8_1386/xgipkg_Xorg8_1386
```

```
# _
```

Step 9.

- Copy the xorg.conf in USB disk to replace the original xorg.conf in the directory /etc/X11/
- Type “sync”

```
Driver xgiz_drv.so copy to /usr/lib/xorg/modules/drivers
/etc/X11/.xorg.conf.xgi
Modify /etc/X11/xorg.conf ...
Replace device "Card0" with "XGIGraphic"
X Configure file was updated.
root@andrew-laptop:/mnt/R2.81.0600-beta/ia32/xgipkg_X
# cp /mnt/xorg.conf /etc/X11/xorg.conf
root@andrew-laptop:/mnt/R2.81.0600-beta/ia32/xgipkg_X
# sync
```

Step 10.

- Type “reboot” to Reboot

```
root@andrew-laptop: /mnt/R2.81.0600-be
# cp /mnt/xorg.conf /etc/X11/xorg.conf
root@andrew-laptop: /mnt/R2.81.0600-be
# sync
root@andrew-laptop: /mnt/R2.81.0600-be
# reboot
```

Step 11.

- Ubuntu now runs the GUI mode on the 8.9inch panel.



Thank You

tech@roboard.com