Fedora 12
X.Org X Server 1.7.1
Kernel: 2.6.31.5-127.fc12.i686.PAE

Install History

1. Make sure the system had install GCC and Kernel header before.

   If not, please use yum command to get packages.

   >yum install gcc

   >yum install kernel-devel

2. Just copy the driver and execute install_rs232 to install

3. Modify the xorg.conf file, please check trouble shooting to create xorg.conf file and refer the example to setup.

xorg.conf

```
Section "ServerLayout"
	Identifier       "X.org Configured"
	Screen        0    "Screen0" 0 0
	InputDevice      "Mouse0" "CorePointer"
	InputDevice      "Keyboard0" "CoreKeyboard"
	InputDevice    "Touchscreen0"      "SendCoreEvents"
EndSection

Section "Files"
	ModulePath     "/usr/lib/xorg/modules"
	FontPath        "catalogue:/etc/X11/fontpath.d"
	FontPath        "built-ins"
EndSection

Section "Module"
	Load    "dbe"
	Load    "record"
	Load    "extmod"
	Load    "dri"
	Load    "glx"
	Load    "dri2"
EndSection

Section "InputDevice"
	Identifier    "Keyboard0"
	Driver          "kbd"
EndSection

Section "InputDevice"
	Identifier    "Mouse0"
	Driver          "mouse"
	Option           "Protocol" "auto"
	Option           "Device" "/dev/input/mice"
	Option           "ZAxisMapping" "4 5 6 7"
EndSection

Section "InputDevice"
	Identifier  "Touchscreen0"
	Driver           "xfdrvtouch"
	Option           "Device"  "/dev/ttyS4"
	Option           "ScreenNo"     "0"
```

```
        Option          "Rotation"      "0"
        Option          "SwapY"         "0"
        Option          "DebugLevel" "0"
        Option          "UpSound"       "1"
        Option          "DownSound" "1"
        Option          "RightButtonON"    "1"
EndSection

Section "Monitor"
     Identifier     "Monitor0"
     VendorName     "Monitor Vendor"
     ModelName      "Monitor Model"
EndSection

Section "Device"
        ### Available Driver options are:-
        ### Values: <i>: integer, <f>: float, <bool>: "True"/"False",
        ### <string>: "String", <freq>: "<f> Hz/kHz/MHz"
        ### [arg]: arg optional
        #Option         "NoAccel"               # [<bool>]
        #Option         "SWcursor"              # [<bool>]
        #Option         "ColorKey"              # <i>
        #Option         "CacheLines"            # <i>
        #Option         "Dac6Bit"               # [<bool>]
        #Option         "DRI"                   # [<bool>]
        #Option         "NoDDC"                 # [<bool>]
        #Option         "ShowCache"             # [<bool>]
        #Option         "XvMCSurfaces"          # <i>
        #Option         "PageFlip"              # [<bool>]
     Identifier    "Card0"
     #Driver          "intel"
     Driver           "vesa"
     VendorName    "Intel Corporation"
     BoardName       "Mobile 945GME Express Integrated Graphics Controller"
     BusID           "PCI:0:2:0"
EndSection

Section "Screen"
     Identifier "Screen0"
     Device         "Card0"
     Monitor        "Monitor0"
     SubSection "Display"
          Viewport     0 0
```

```
            Depth        1
    EndSubSection
    SubSection "Display"
            Viewport     0 0
            Depth        4
    EndSubSection
    SubSection "Display"
            Viewport     0 0
            Depth        8
    EndSubSection
    SubSection "Display"
            Viewport     0 0
            Depth        15
    EndSubSection
    SubSection "Display"
            Viewport     0 0
            Depth        16
    EndSubSection
    SubSection "Display"
            Viewport     0 0
            Depth        24
    EndSubSection
EndSection
```

Trouble Shooting:

1. xorg.conf is missing:

Press Ctrl+Alt+F2 and login to root account, use the xorg configuration to create the xorg.conf file.

>Xorg –configure :1

This will create a default xorg.conf in /root/xorg.conf.new which you can copy to /etc/X11/xorg.conf

2. VGA Driver

Modify the /etc/X11/xorg.conf, change the Driver "Intel" to "vesa", if your display abnormal.

| **Driver** | **"intel"** | ➔ | **Driver** | **"vesa"** |

3. Serial Port

Modify the /boot/grub/menu.lst, add 8250.nr_uarts=6 to kernel line.

Kernel /vmlinuz-2.6.31.5127.fc12.i686.PAE ro root………….quiet 8250.nr_uarts=6