

Thank you for purchasing the Silicon Graphics(r) MultiLink(tm) Adapter. For the latest information about the Silicon Graphics 1600SW flat panel display and MultiLink Adapter, please refer to the SGI flat panel web site at www.sgi.com/go/flatpanel. There you will find links to the latest graphic card drivers from SuperWide Savvy graphic card vendors that make full use of the 1600 x 1024 SuperWide resolution of this unique digital flat panel display.

As you may be replacing an existing analog CRT display, the information in this README file deals with installation issues you may encounter. If these instructions do not answer your questions, please consult the SGI flat panel web site for the latest information and technical support contacts.

Upgrading to your new Silicon Graphics MultiLink Adapter

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Section 1 Upgrading to your new Silicon Graphics MultiLink Adapter for Windows 98, Windows NT 4.0, and Windows 2000 users

If you are upgrading from your current analog (VGA) monitor to the Silicon Graphics MultiLink Adapter and 1600SW Digital Flat Panel display see section 1.1 "Upgrading from an analog (VGA) monitor"

If you are not currently using an analog (VGA) monitor see section 1.2 "Connecting your Silicon Graphics MultiLink Adapter"

Section 1.1 Upgrading from an analog (VGA) monitor

Step 1. If you are planning on installing a new graphics card in your system, do so now. (Refer to your graphics card documentation on how to install your new graphics card)

Step 2. If you are planning on installing a new graphics card driver, do so now. (Refer to your graphics card documentation of how to install new graphics card drivers)

Step 3. Verify that you are running a supported display resolution and refresh rate (See section 1.3 "Verifying your display resolution and refresh rate")

Step 4. Shut-down your system.

Step 5. Disconnect your analog (VGA) monitor and connect the Silicon Graphics MultiLink Adapter. Make sure that the Analog/Digital selector switch is in the proper position.

Step 6. Turn on your system. If you do not see an image on your display see section 3.1 "I do not see an image when I turn on my system".

Step 7. Boot Windows. If you do not see an image on your display after booting Windows see section 3.2 "I do not see an image after booting Windows".

Step 8. If you wish to operate at the maximum 1600x1024 display resolution of your new Silicon Graphics MultiLink Adapter, do so now. (See section 1.3 "Verifying your display resolution and refresh rate")

Section 1.2 Connecting without an existing analog (VGA) monitor

Step 1. Make sure your system is powered off.

Step 2. If you are planning to install a new graphics card in your system, do so now. (Refer to your graphics card documentation on how to install your new graphics card)

Step 3. Connect the Silicon Graphics MultiLink Adapter. Make sure that the Analog/Digital selector switch is in the proper position.

Step 4. Turn on your system. If you do not see an image on your display see section 3.1 "I do not see an image when I turn on my system".

Step 5. Boot Windows. If you do not see an image on your display after booting Windows see section 3.2 "I do not see an image after booting Windows".

Step 6. If you are planning on installing new graphics card drivers, do so now. (Refer to your graphics card documentation of how to install new graphics card drivers)

Step 7. Verify that you are running a supported display resolution and refresh rate (See section 1.3 "Verifying your display resolution and refresh rate")

Step 8. If you wish to operate at the maximum 1600x1024 display resolution of your new Silicon Graphics MultiLink Adapter, do so now. (See section 1.3 "Verifying your display resolution and refresh rate")

Section 1.3 Verifying your display resolution and refresh rate

For your Silicon Graphics MultiLink Adapter to operate

properly, your computer must also be operating at a display resolution that the Silicon Graphics MultiLink Adapter supports. The Silicon Graphics MultiLink Adapter supports the following resolutions:

640 x 480	(VGA)
800 x 600	(SVGA, Super VGA)
1024 x 768	(XGA)
1280 x 960	(QVGA, Quad VGA)
1280 x 1024	(SXGA, Super XGA)
1600 x 1024	(SXGA-W, Super XGA with wide screen format)

If you plan to operate your Silicon Graphics 1600SW at the 1600x1024 resolution, your graphics card driver may need to be updated to a version which supports the 1600x1024 timing required by the Silicon Graphics MultiLink Adapter. SGI recommends that you verify your Silicon Graphics MultiLink Adapter setup at a lower resolution before operating at the maximum 1600x1024 display resolution.

If you plan to operate your Silicon Graphics 1600SW at the 1600x1024 resolution, your graphics card driver may need to be updated to a version which supports the 1600x1024 "SuperWide" timing required by the Silicon Graphics MultiLink Adapter. Refer to the SGI flat panel web site at www.sgi.com/go/flatpanel for a list of SuperWide Savvy video cards.

Also note that the Silicon Graphics MultiLink Adapter operates at 60 Hz refresh rate. If you are operating at a refresh rate other than 60Hz, you must change your PC's refresh rate to 60Hz. Additionally, if you plan to run your monitor at different display resolutions (screen sizes), you must change the refresh rate to 60 Hz while running those resolutions as well. It is recommended that you change the refresh rate to 60Hz for all available resolutions that the Silicon Graphics MultiLink Adapter supports.

The following instructions differ according the version of Windows that you are using. Please follow the instructions applicable to your configuration.

1.3.1 Windows 98 Instructions

* Verify your display resolution as follows:

Step 1. In the Windows 98 Start Menu, select "Settings" and then "Control Panel"

Step 2. In the Control Panel, double-click on the "Display" icon.

Step 3. In the Display Properties window, select the "Settings" tab. Verify that your "Screen size" setting is a supported display resolution.

* Changing your display resolution

Step 1. In the Windows 98 Start Menu, select "Settings" and then

"Control Panel" In the Control Panel, double-click on the "Display" icon.

Step 2. In the Display Properties window, select the "Settings" tab.

Step 3. Move the "Screen size" slider to the desired resolution. Click on the "Apply" button.

If you do not see an image on the Silicon Graphics 1600SW after changing your display resolution, please wait and your resolution will automatically return to the previous setting.

* Verify your refresh rate as follows:

Step 1. In the Windows 98 Start Menu, select "Settings" and then "Control Panel"

Step 2. In the Control Panel, double-click on the "Display" icon.

Step 3. In the Display Properties window, select the "Settings" tab.

Step 4. Click on the "Advanced" button in the lower-right corner of the Display Properties window.

Step 5. In the Advanced Properties window, select the "Adapter" tab. Verify that the "Refresh rate" setting is set to 60Hz. Click on the "Apply" button

1.3.2 Windows NT 4.0 Instructions

* Verify your display resolution as follows:

Step 1. In the Windows NT Start Menu, select "Settings" and then "Control Panel"

Step 2. In the Control Panel, double-click on the "Display" icon.

Step 3. In the Display Properties window, select the "Settings" tab. Verify that your "Desktop Area" setting is a supported display resolution.

* Changing your display resolution

Step 1. In the Windows NT Start Menu, select "Settings" and then "Control Panel"

Step 2. In the Control Panel, double-click on the "Display" icon.

Step 3. In the Display Properties window, select the "Settings" tab.

Step 4. To change the display resolution, move the "Desktop Area" slider to the desired resolution and click on the "Test" button.

Step 5. If the new desired resolution displays properly, click on the "Apply" button.

If you do not see an image on the Silicon Graphics 1600SW after changing your display resolution, please wait and your resolution will automatically return to the previous setting.

* Verify your refresh rate as follows:

Step 1. In the Windows NT Start Menu, select "Settings" and then "Control Panel"

Step 2. In the Control Panel, double-click on the "Display" icon.

Step 3. In the Display Properties window, select the "Settings" tab. Verify that the "Refresh Frequency" setting is set to 60Hz.

Step 4. Click on the "Apply" button

1.3.3 Windows 2000 Instructions

* Verify your display resolution as follows:

Step 1. In the Windows 2000 Start Menu, select "Settings" and then "Control Panel"

Step 2. In the Control Panel, double-click on the "Display" icon.

Step 3. In the Display Properties window, select the "Settings" tab.

Step 4. Verify that your "Screen Area" setting is a supported display resolution.

* Changing your display resolution

Step 1. In the Windows 2000 Start Menu, select "Settings" and then "Control Panel"

Step 2. In the Control Panel, double-click on the "Display" icon.

Step 3. In the Display Properties window, select the "Settings" tab.

Step 4. To change the display resolution, move the "Screen area" slider to the desired resolution and click on the "Apply" button.

If you do not see an image on the Silicon Graphics 1600SW after changing your display resolution, please wait and your resolution will automatically return to the previous setting.

* Verify your refresh rate as follows:

Step 1. In the Windows 2000 Start Menu, select "Settings" and then "Control Panel"

Step 2. In the Control Panel, double-click on the "Display" icon.

Step 3. In the Display Properties window, select the "Settings" tab.

Step 4. Click on the "Advanced" button in the lower-right corner of the Display Properties window.

Step 5. In the Advanced Properties window, select the "Monitor" tab. Verify that the "Refresh Frequency" setting is set to 60Hz.

Step 6. To change the refresh rate select a new "Refresh Frequency" setting and click on the "Apply" button.

Section 2 Upgrading to your new Silicon Graphics MultiLink Adapter for Macintosh users

If you are upgrading from your current analog display to the Silicon Graphics MultiLink Adapter and 1600SW Flat Panel display see section 2.1 "Upgrading from an analog display"

If are not currently using an analog display see section 2.2 "Connecting without an existing analog display"

Section 2.1 Upgrading from an analog display

Step 1. If you are planning to install a new graphics card in your system, do so before you remove your existing display. (Refer to your graphics card documentation of how to install your new graphics card)

Step 2. If you are planning on installing new graphics card drivers, do so before you remove your existing display. (Refer to your graphics card documentation of how to install new graphics card drivers)

Step 3. Verify that you are running a supported display resolution and refresh rate (See section 2.3 "Setting your display resolution and refresh rate")

Step 4. Shut-down your system.

Step 5. Disconnect the existing display and connect the Silicon Graphics MultiLink Adapter. If your video card connector uses the old DB15 Macintosh video connector, make sure you have a Macintosh-to-VGA adapter before attempting to connect the MultiLink Adapter. Make sure that the Analog/Digital selector switch is in the proper position.

Step 6. Turn on your system. If you do not see an image on your display see section 3.1 "I do not see an image when I turn on my system".

Step 7. If you wish to operate at the maximum 1600x1024 display resolution of your Silicon Graphics 1600SW flat panel display, do so

now. (See section 2.3 "Setting your display resolution and refresh rate")

Section 2.2 Connecting without an existing analog display

Step 1. Power off your system.

Step 2. If you are planning to install a new graphics card in your system, do so now. (Refer to your graphics card documentation of how to install your new graphics card)

Step 3. Connect the Silicon Graphics MultiLink Adapter. Make sure that the Analog/Digital selector switch is in the proper position.

Step 4. Turn on your system. If you do not see an image on your display see section 3.1 "I do not see an image when I turn on my system".

Step 6. If you are planning on installing new graphics card drivers, do so now. (Refer to your graphics card documentation of how to install new graphics card drivers)

Step 7. Verify that you are running a supported display resolution and refresh rate (See section 2.3 "Setting your display resolution and refresh rate")

Step 8. If you wish to operate at the maximum 1600x1024 display resolution of your Silicon Graphics 1600SW flat panel display, do so now. (See section 2.3 "Setting your display resolution and refresh rate.")

Section 2.3 Setting your display resolution and refresh rate

For your Silicon Graphics MultiLink Adapter to operate properly, your computer must also be operating at a display resolution that the Silicon Graphics MultiLink Adapter supports. The Silicon Graphics MultiLink Adapter supports the following resolutions:

640 x 480 @ 60Hz
800 x 600 @ 60Hz
1024 x 768 @ 60Hz
1280 x 960 @ 60Hz
1280 x 1024 @ 60Hz
1600 x 1024 @ 60Hz

If you plan to operate your Silicon Graphics 1600SW at the 1600x1024 resolution, your graphics card driver may need to be updated to a version which supports the specific 1600x1024 timing required by the Silicon Graphics MultiLink Adapter. It is recommended that you verify that your Silicon Graphics MultiLink Adapter and 1600SW Flat Panel Display works correctly at a lower resolution before operating at the maximum 1600x1024 display resolution.

Verify your display resolution as follows:

1. In the Apple Menu, select "Control Panels" and then "Monitors" (on older systems this may be called "Monitors and Sound")
2. Click the "Monitor" icon.
3. To change the display resolution, select one of the supported timings from the list labeled "Resolution".

If you do not see an image on the Silicon Graphics 1600SW after changing your display resolution, please wait and your resolution will automatically return to the previous setting.

The Silicon Graphics MultiLink Adapter operates at a refresh rate of 60Hz. If the list of resolutions shows refresh rates higher or lower than 60Hz, take care not to choose them. You must choose a timing with a refresh rate of 60Hz.

If you intend to operate your Silicon Graphics MultiLink Adapter at the 1600x1024 resolution, your graphics card driver may need to be updated to a version which supports the 1600x1024 "SuperWide" timing required by the Silicon Graphics MultiLink Adapter. Refer to the SGI flat panel website at www.sgi.com/go/flatpanel for a list of SuperWide Savvy video cards.

Section 3 Troubleshooting

Section 3.1 I do not see an image when I turn on my system

If you do not see an image on your display when you first power on your computer, it is most likely due to one of the following causes:

1. The Analog/Digital selector switch is not in the proper position.
2. You are operating the Silicon Graphics MultiLink Adapter in digital mode and your graphics card does not support digital mode.

Section 3.2 I do not see an image after booting Windows

If you see an image when you first power on your PC, but do not see an image after booting Windows, it is most likely due to one of the following causes:

1. You are running at an unsupported refresh rate. (only 60Hz is supported)
2. You are running at an unsupported display resolution.
3. You are operating at 1600 x 1024 but your graphics card does not provide proper support for the 1600x1024 timing required by the Silicon Graphics MultiLink Adapter.

Press the reset button on your computer to restart your PC. Boot Windows in "Safe mode" or "VGA mode". After Windows boots, reboot Windows again, this time booting in "Normal mode".

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