

The video circuitry for your computer is included on the main logic board. This circuitry features:

- IBM VGA compatibility plus support for 16-color, 1024 x 768 graphics; 256-color, 800 x 600 graphics; and 256-color, 640 x 480 graphics
- support for upgrading to 1MB of video memory
- with 1MB memory option: support for 16-color, 1280 x 1024 interlaced graphics; 256-color, 1024 x 768 non-interlaced graphics; and bit block transfer (BITBLT) for enhanced video performance with Windows and hardware cursor applications
- support for 132-column text by 25 rows and by 43 rows
- a minimum of 512KB of video memory (RAM), expandable to 1MB for some computer models
- a color palette of up to 16.8 million simultaneous colors
- compatibility with VGA analog monochrome and color, fixed- and multiple-frequency monitors (including 8514/A-compatible monitors)

In its default mode, the video supports most software designed for the EGA and /or VGA standard. You must use a VGA analog color or monochrome monitor. The video circuitry is also compatible with software written for these video standards:

- VGA (Video Graphics Array)
- VESA (Video Electronics Standards Association)
- MCGA (Multi-Color Graphics Array)
- EGA (Enhanced Graphics Adapter)
- CGA (Color/Graphics Adapter)
- MDA (Monochrome Display Adapter)

The modes available are listed in "Super Video Modes" and "Standard Video Modes."

Monitor Connection

Connect a VGA analog monitor to the video connector on the back of the computer. If you install an 8514/A-compatible expansion adapter, use a 26-pin pass-through cable to connect the adapter to the VGA Feature connector on the main logic board. Refer to "Main Logic Board Layout" in the "Installing Optional Hardware" section to locate the VGA Feature connector. Contact your computer dealer for the required cable.

Memory Considerations

The SVGA circuitry uses memory locations A0000-BFFFF for video memory and locations C0000 - C7FFFF for the extended video BIOS. These are the same locations used by standard VGA circuitry. If you install an EMS (Extended Memory Specification) adapter or other device that uses these memory locations, reconfigure the device to use other memory locations.

For an EMS adapter, you can usually designate the exclusions when starting the EMS driver. Consult your device documentation to determine the memory locations used.

The SVGA circuitry uses memory locations B0000-B7FFF for monochrome mapping. If you are running EMS software that uses this memory range, either reconfigure the EMS driver or do not set the video for monochrome mapping.

Operation

In its default configuration, the SVGA circuitry supports most application software that is designed for the VGA or EGA video standard. Just turn on the computer and install the applications package as described in the application documentation. At system startup, the SVGA circuitry is configured for 80-column text mode.

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