

smxMGL

PRODUCT BRIEF

Many embedded systems now require sophisticated graphical interfaces. *smxMGL* provides this capability for *smx* applications.

smxMGL is a comprehensive graphical package which includes the advanced features needed for programs such as video games, simulators, and other highly interactive applications requiring interactive graphics.

smxMGL is a port of the SciTech MGL, produced by SciTech Software Inc. This is a full-featured, 32-bit graphics library for high-performance graphics programming. It provides fast, low-level rasterization of 2D and 3D primitives plus sprite management for animation. MGL supports all graphics resolutions from 320x200 up to 1600x1200 and any pixel depth from 4 bits per pixel up to 32 bits per pixel.

Although *smxMGL* is intended to be run on an *smx* embedded system platform, for development and debugging of the user interface, you can run your *smxMGL* application under Windows or DOS. Once you have perfected the user interface, it is a simple matter to re-compile for the target system.

If, as well as needing graphics and animation, you also need windows, radio buttons, menus, etc., we recommend running PEG (Portable Embedded GUI) on top of *smxMGL*.

FEATURES

- Over 250 video drivers support nearly all graphics cards and accelerators.
- Supports resolutions from 320x200 to 1200x1600.
- High performance 2D and 3D rendering capabilities.
- Multiple platform support is available.
- Support for multiple tasks.
- WinDirect or DirectX libraries supplied for easy development under Windows 95.
- Color depths from 4 bits to 32 bits per pixel.
- Rendering direct to video memory.
- C++ wrapper class API.
- Source code provided.
- Refresh rate control.
- Event handling support for user events, keyboard events, etc. Same event functions as DOS and Windows versions.
- Lines, rectangles, ellipses, elliptical arcs, text, monochrome bitmaps, complex regions.
- BitBlt, StretchBlt, TransBlt.

MGL is a trademark of SciTech Software, Inc. (See www.scitech.com for more information and a free copy.)

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