

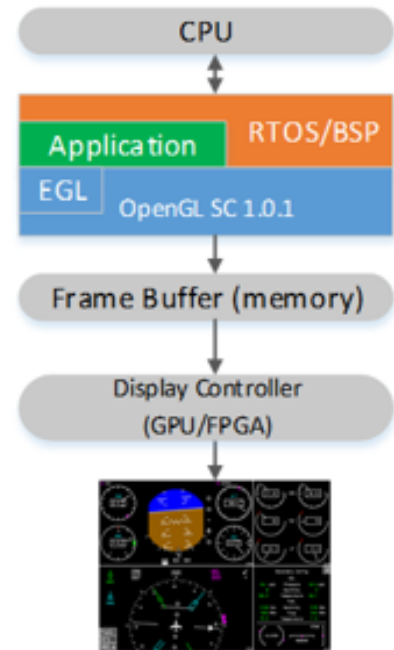


## ENSCO's IGL

### Safety Critical Library Suite Ecosystem

CoreAVI has partnered with ENSCO Avionics to offer ENSCO's IGL<sup>®</sup>, a safety critical OpenGL<sup>®</sup> SC 1.0 software renderer, certifiable to DO-178C. With deterministic execution and a small footprint driver library, IGL is ideal for embedded safety critical applications such as avionics, industrial, and defense.

Designed for graphics rendering environments without a GPU, ENSCO's IGL renders high performance real-time graphics on platforms with limited or no dedicated graphics acceleration. ENSCO's IGL can also be used as one graphic rendering solution for applications with mixed DAL levels, and is one of the highest Technology Readiness Level OpenGL software renderers available today. ENSCO's IGL facilitates Federal Aviation Administration (FAA) and European Aviation Safety Agency (EASA) Design Assurance Level (DAL) A certification of systems.



## Features & Benefits

- DO-178C certifiable to the most stringent levels
- Smaller code size with less complexity to ease certification process
- Proven solution that lowers risk and saves cost
- Stable platform with configuration longevity – API is standard with ongoing support and does not need to be recertified for upgraded hardware
- Platform independent – can be easily ported to different platforms
- Eliminates the need for a hardware GPU, therefore reducing size, weight, and power (SWaP)
- Supports multiple platforms, multiple hardware architectures, and multiple operating systems
- Efficient high performance implementation, supporting both floating and fixed point math
- High quality anti-aliased lines
- Contains a GPU virtualization manager option to enable a standard processor (or core) to function as a dedicated GPU in the system
- Support for 16, 24, and 32 bit framebuffer modes, with or without alpha-out
- Renders using a user-supplied framebuffer to accomplish video blend, static symbology backgrounds, and other special purpose features