

Process Control SCADA Tool: AEROPGLG05

The GLG Toolkit by Generic Logic is a high-performance, multi-platform graphical development framework used to build HMI (Human-Machine Interface) and SCADA (Supervisory Control and Data Acquisition) systems. It allows developers to deploy data-driven, real-time visual interfaces for process control, telemetry monitoring, and mission-critical applications.

Core Components

- **GLG Graphics Builder:** A point-and-click interactive editor used to design dynamic HMI screens, custom widgets, and SCADA mimics without manual coding.
- **GLG Object Engine:** A highly optimized runtime engine that processes real-time data feeds and updates only the specific visual elements affected by data changes.
- **Pre-built Widget Libraries:** A large collection of ready-to-use industrial components including dials, meters, real-time charts, process control symbols, and avionics gauges.

Multi-Platform Deployment Options

The toolkit allows developers to reuse the same graphical drawings across desktop, web, and embedded systems:

- **Web and Mobile:** Deployable using the GLG JavaScript library, which natively integrates with React, Angular, Next.js, or plain HTML5 without browser plugins.
- **Desktop Environments:** Offers native integration through C/C++ DLLs, C#/.NET Windows Forms user controls, and Java class libraries.
- **Embedded Hardware:** Features an Embedded Edition tailored for ARM-based boards including Raspberry Pi, NVIDIA Jetson, and TI Sitara.

Key Technical Advantages

- **Seamless Integration:** Designed with an open API to embed directly into existing legacy software or new applications without rewriting underlying code.
- **Data Agnostic Architecture:** Connects to any backend data source or PLC software bus layout using an Open Data API.
- **High-Performance Rendering:** Capable of handling real-time charts plotting tens of thousands of data points with low latency.
- **Built-in GIS Capabilities:** Features a self-contained map server for geographic telemetry tracking that operates fully offline.

If you would like to explore this software further, you can test its features through the online Generic Logic AJAX Server-Side HMI Demos.

To help provide more specific information, are you looking to integrate GLG Toolkit into an existing programming project, or are you comparing it against other SCADA platforms?

The **GLG Toolkit** by Generic Logic is a high-performance graphical framework used to build real-time SCADA and HMI monitoring interfaces. It acts as a specialized graphics subsystem. Engineers use it to visualize complex process control systems without manually coding raw graphics.

Core Components & Architecture

The toolkit eliminates standard programming bottlenecks by separating graphic layout design from the underlying software logic.

- **GLG Graphics Builder:** A point-and-click Interactive HMI Editor. Developers draw custom process mimics, map dynamic data variables, and construct complete operator dashboards.
- **GLG Object Engine:** The run-time component. It receives live industrial data feeds and efficiently refreshes only the modified visual components to lower hardware overhead.
- **Widget Libraries:** Pre-built, standard industrial components. These include dials, real-time strip charts, trend graphs, meters, tank levels, and process control valves/symbols.

Multi-Platform Deployment Capabilities

The major advantage of the toolkit is its flexibility in cross-platform deployment. A mimic built inside the Graphics Builder can be embedded into nearly any software stack:

Deployment Target	Supported Frameworks & Editions	Key Feature
Web & Mobile	JavaScript, React, Angular, Next.js, ASP.NET, JSP	Pure HTML5 execution in browsers with zero local client installations.
Desktop Software	C, C++, C#/.NET (Windows Forms), Java, ActiveX	Native integration via DLLs or class libraries into legacy SCADA systems.
Embedded Systems	ARMv6, ARMv7, ARMv8 / ARM64	Optimized for Raspberry Pi, NVIDIA Jetson, and boards running RTOS.

Primary Industry Applications

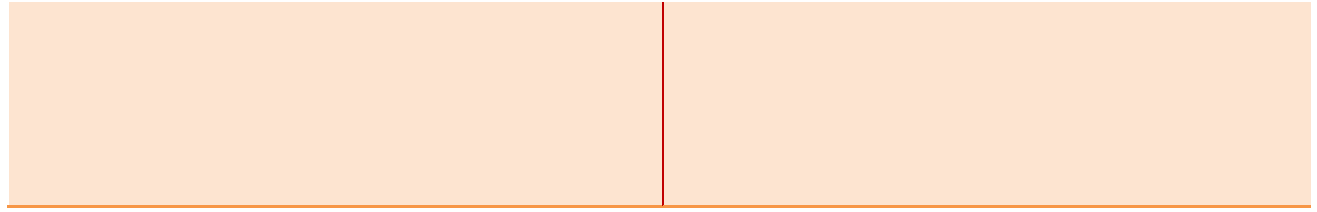
Because of its performance capabilities, it is used by major organizations including NASA, Collins Aerospace, and Yokogawa for:

- **Process Control:** Displaying real-time chemical, rubber, or manufacturing plant status diagrams.
- **Telemetry & Network Monitoring:** Rendering live status feeds from critical server or remote infrastructure networks.
- **Geographic Visualizations:** Deploying built-in, self-contained GIS map servers that work completely offline for aviation or traffic systems.

Are you planning to use the GLG Toolkit to **build a new SCADA application from scratch**, or are you looking to **embed it as a web-based client** into an existing industrial system?

OS & HARDWARE SUPPORT

INDUSTRY APPLICATION



Note: ** Specifications are copied from manufacturer data. Please contact before buying.