

SCADA Builder Software: AEROPGLG017

The GLG Toolkit by Generic Logic is a comprehensive, multi-platform development framework used to build data-driven **HMI (Human-Machine Interface)** and **SCADA (Supervisory Control and Data Acquisition)** software systems. It eliminates the need to manually code complex graphics, allowing developers to create highly interactive, real-time visual monitors.

Core Components

- **GLG Graphics Builder:** A specialized vector graphics editor featuring a point-and-click interface. Developers use it to design elaborate process control diagrams, draw objects, and bind them to real-time data sources without manual coding.
- **Pre-built Widgets & Palettes:** Specialized instrument sets including real-time charts, dials, meters, 2D/3D graphs, and process control symbols.
- **HMI Configurator:** A simplified OEM version of the editor that allows end-users or field technicians to modify existing layouts or build new displays on site.
- **GLG Map Server:** An optional, high-performance GIS map component that functions locally without requiring an internet connection.

Cross-Platform Architecture

The graphics files generated in the builder are completely resolution-independent and cross-platform. The **same layout file** can be deployed across different environments without rewriting code, using the toolkit's native runtime APIs:

- **Web & Mobile:** Deployed natively through HTML5 Canvas using JavaScript or frameworks like React, Angular, and Next.js.
- **Desktop:** Programmed using C/C++, C#/.NET, or Java for both Windows and Linux.
- **Embedded:** Capable of running on resource-constrained hardware such as Raspberry Pi, Beagle Bone, and ARM architecture.

Evaluation: Pros & Cons

Features	Benefits	Tradeoffs / Requirements
Performance	Bypasses slow DOM/SVG elements by rendering directly to HTML5 Canvas for real-time visualization of tens of thousands of data	Requires developer knowledge of target APIs (C++, Java, JS) to manage data bindings

	points.	effectively.
Deployment	Universal reuse of graphical assets across desktop, mobile, and web clients.	The Builder application itself runs as a native desktop binary, not inside a web browser.
Flexibility	Highly extensible; custom widgets can be developed and locked into the palette for reuse.	Standard widgets and specialized component sets are priced and sold separately from the core API toolkit.

How to Get Started

1. **Download the Evaluation:** You can get started for free by using the GLG Toolkit Community Edition, which includes the Graphics Builder, standard widget packages, the HTML5 JavaScript runtime library, and sample GIS datasets.
2. **Review Examples:** Test your application data structures inside the builder using its native prototyping simulator, or browse through the online HTML5 Process Demo to see how a configured layout interacts with live data APIs.

Are you planning to build a desktop-based SCADA system or a modern web-accessible HMI panel? Please let me know what **programming language** or **hardware architecture** your project requires so I can provide specific deployment steps.

The **GLG Toolkit** by **Generic Logic** is a specialized, multi-platform graphics framework designed to build data-driven **HMI (Human-Machine Interface) and SCADA (Supervisory Control and Data Acquisition) software**. Instead of providing a rigid, ready-made SCADA application, it delivers a flexible developer environment to embed high-performance visual dashboards into custom desktop, web, or embedded systems.

Core Components of the GLG Toolkit

The toolkit is divided into visual creation tools and code-level deployment libraries:

- **GLG Graphics Builder:** A visual, point-and-click vector graphics editor. Developers use it to draw components, define animations, and establish real-time data-binding structures without manual graphics coding.

- **HMI Configurator:** An OEM-oriented, simplified drawing editor. It allows end-users to customize screens or build new displays using a predefined palette provided by the software vendor.
- **Pre-Built Widgets:** Modular components including **dials, meters, gauges, and high-density real-time charts** capable of handling tens of thousands of data points smoothly.
- **GLG Map Server:** An optional, self-contained GIS map engine that runs without requiring an internet connection.

Cross-Platform Deployment & Architecture

One of the primary advantages of the toolkit is its cross-platform architecture. A layout file generated in the Graphics Builder (.g extension) is platform-independent. You can deploy the exact same file across several software environments using their dedicated runtime libraries:

- **Web & Mobile:** Utilizes a specialized **HTML5 JavaScript Library**. It renders graphics directly via the hardware-accelerated **HTML5 Canvas API**, avoiding the heavy DOM overhead often found in standard SVG solutions. Native support extends to frameworks like **React, Angular, and Next.js**.
- **Desktop & Embedded:** Offers runtime engine libraries for **C/C++, C#/.NET, and Java**, running natively on both Windows and Linux.
- **Hardware Support:** Runs smoothly on low-power architectures including **Raspberry Pi, Beagle Bone, and ARMv7 systems**.

Key Advantages for Developers

- **High Performance:** Designed specifically for mission-critical SCADA systems that require rapid, low-latency updates for large sets of incoming telemetry data.
- **Logic Parity:** The underlying object models and event handling remain identical across web and desktop platforms, meaning code logic does not need to be refactored when shifting environments.
- **Free Evaluation:** The Generic Logic Download Portal offers a **Free Community Edition** containing the full Graphics Builder, programming libraries, and test components.

Are you planning to build a **web-based SCADA interface** or a **desktop-bound industrial application**? Let me know your preferred **programming language** or **hardware constraints** so I can provide relevant integration steps.

OS & HARDWARE SUPPORT	INDUSTRY APPLICATION

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