

Electrical UI Development Tool: AEROPGLG08

The GLG Toolkit by Generic Logic is a comprehensive graphical framework used by electrical and automation engineers to build dynamic, data-driven HMI (Human-Machine Interface) and SCADA displays, process control mimics, and real-time monitoring dashboards.

Key Features and Capabilities

- **Interactive HMI Editor:** Features a visual Graphics Builder for point-and-click design, which eliminates manual, low-level coding for UI elements.
- **Real-Time Data Visualization:** Capable of displaying tens of thousands of data points on high-performance dynamic charts, making it ideal for monitoring electrical grids, telemetry, and traffic.
- **Platform & Data Agnostic:** Fully supports desktop (C/C++, C#/.NET, Java), web (JavaScript, React, Angular, Next.js), and embedded systems (ARM/Raspberry Pi).
- **Open Data API:** Connects easily to backend data acquisition systems, allowing custom logic and backend write-backs.

How to Get Started

- **Downloads:** You can test out various framework examples via the GLG Toolkit Demo Download page.
- **Community Edition:** A fully functional, free version for prototyping and development can be accessed via the GLG Toolkit Free Community Edition.
- **Documentation:** For rapid prototyping using pre-built source code, consult the GLG Toolkit JavaScript Library Info.

If you want, let me know:

- What platform are you building for (Web, Windows Desktop, or Embedded)?
- What is your primary programming language (e.g., C++, C#, Java, JavaScript)?

I can provide more targeted code examples or setup instructions for your specific project

The **GLG Toolkit** by Generic Logic is a powerful, real-time graphics framework used extensively to build advanced User Interfaces (UI), Human-Machine Interfaces (HMI), and SCADA systems for the electrical, power distribution, and industrial automation industries. Instead of forcing developers to code low-level graphics manually, it provides a dynamic engine where visual objects respond instantly to live data feeds.

Core Components & Design Workflow

- **GLG Graphics Builder:** A point-and-click editor used to visually design electrical schematics, control panels, and dashboards without writing UI layout code.
- **Pre-Built Electrical & HMI Palettes:** Includes specialized symbols for process control, electrical substation diagrams, switches, dials, meters, and custom toggles.
- **Dynamic Animations & Links:** UI objects can be assigned variables and constraints so that their color, position, or blinking state shifts dynamically based on live power grid telemetry.
- **GLG HMI Configurator:** A simplified version of the editor targeted at end-users, enabling system operators to tweak layout views with minimal training.

Cross-Platform & Deployment Options

Drawings created inside the Graphics Builder are resolution-independent vector files. They can be seamlessly deployed across diverse programming environments using the toolkit's native runtime libraries:

Environment	Supported Technologies & Frameworks
Web & Mobile Deployment	Pure JavaScript (HTML5 Canvas), React, Angular, Next.js
Desktop Deployment	C/C++, C# / .NET, Java
Embedded Systems	ARM-based boards, Raspberry Pi, Beagle Bone (using

Windows/Linux)

Why It Is Popular in Electrical Engineering

- **High Performance:** Optimized to handle thousands of real-time data data-point updates simultaneously, which is critical for monitoring large electrical grids or substations.
- **Protocol Agnostic:** Uses an Open Data API to tie visual components into any backend data acquisition or PLC communication system.
- **GIS Mapping Integration:** Features an optional integrated Map Server to overlay physical power transmission networks on localized maps without requiring an internet connection.

If you are planning a project, let me know:

- Your targeted **deployment environment** (Web, Desktop, or Embedded)?
- The backend **programming language** you plan to implement?
- Whether you require a **free evaluation** or are exploring its open Free Community Edition? [\[1\]](#)

OS & HARDWARE SUPPORT	INDUSTRY APPLICATION

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